Cybersecurity
Buyer's Guide

CGI Canada, 2024

CGI

Contents

Executive summary

Securing Canada for over 20 years

Cybersecurity is a key focus in information technology discussions and strategies. As global connectivity grows, the nature of cyber threats has evolved, with adversaries often located far from their targets. Malware is increasingly accessible through as-a-service models on the dark web, making it a profitable endeavor for those who wish to compromise data security.

Canadian insurers have reported a rise in applicants for cybersecurity insurance, with six out of 10 organizations benefiting from coverage.* The Government of Canada's Bill C-26 amended the Telecommunications Act, adding security to the nine other policy objectives, making it of national interest. CISOs and other technology leaders are actively working to strengthen cybersecurity measures within their organizations.

Despite these efforts, Canadian organizations still face significant financial impacts from data breaches. Canada has been ranking among the top 5 countries for the highest average total cost of data breach over several years, which reached CA$6.94 million in 2023.

Phishing remains the most common type of attack, accounting for 17% of breaches and resulting in an average cost of CA$6.98 million.**

Organizations running on hybrid environments are strengthening their policies and scrutinizing service level agreements with cloud providers. Furthermore, the integration of information technology (IT) and operational technology (OT) requires addressing cyber risks with a cohesive approach. When IoT systems are deployed, they extend the enterprise's attack surface, adding complexity to the ecosystem. Finally, while artificial intelligence and machine learning are seen as options to enhance productivity through automation, technology leaders are identifying security as a top concern and a barrier to their adoption.***

Our vision of cybersecurity is clear. Security is a key pillar of CGI's Management Foundation. In a context where businesses can only stay relevant and sustainable through robust practices to counter cyber threats, we are our clients' best ally for success.

By staying on top of fast-evolving technologies, ecosystems and threats, our consultants are well-equipped to understand your environment and needs. With nine dedicated Centers of Excellence (CoE) and strategic alliances with top technology vendors globally, CGI has demonstrated strong capabilities in cybersecurity in Canada and abroad.

Our 1,600+ security experts are committed to helping all our clients achieve their highest level of cybersecurity maturity through advisory, training, architecture and engineering, and managed services, including rapid incident response. As your Managed Security Services Provider (MSSP), we are fully enabled run your Security Operations Center (SOC) end-to-end.
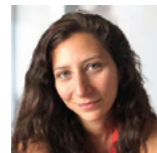
Hiba Moumneh
Director, Consulting Services, Greater Montreal Area

Subin Alexander
Director, Consulting Delivery, Canadian Global Tech Operations - Ontario

Recent awards and recognitions

CGI was a finalist for the Microsoft Intelligent Security Alliance award in 2024. The MISA awards honor members that demonstrate innovation and success across the security landscape. CGI competed in the Endpoint Management Trailblazer category.

CGI was a finalist for the Microsoft Canada Impact Awards in 2022 and 2023, in the Financial Services and Tech Intensity categories.

CGI was named a leader in Canadian security services by IDC MarketScape in 2022. This IDC study presents a vendor assessment of security services in Canada through the IDC MarketScape model.

Securing Canada one location at a time

One of the reasons CGI has been successful in offering cybersecurity consulting and delivering services to Canadian institutions is the proximity model. This allows us to cater to all sectors and industries across the country, with onshore technical professionals and business advisors supporting our clients in their time zone and location.

Our customer base in Canada spans from coast to coast to coast, with organizations from:

Provincial and federal governments

Municipalities

Banking

Insurance

Energy and utilities

Transportation

Manufacturing, retail and distribution

"As a city organization, we have many legacy systems that were not previously exposed to the internet. However, with the integration of IT and OT systems, including water and wastewater management, smart traffic management, and others, the cybersecurity threat has significantly increased. This poses a potential risk not only to critical infrastructure but also to the safety and well-being of the citizens in our community. Working with CGI, we have been able to develop a roadmap and framework for the city to significantly improve security, technology systems, and cooperation within the organization."

Marc Désaulniers
IT Cybersecurity Expert - City of Trois-Rivières, QC

What CGI clients have to say about their security posture

94%

have a defined personal data privacy and protection **strategy**

69%

implementing security control measures to be the most important element of their cybersecurity strategy

85%

apply their organization's cybersecurity protection and regulatory compliance **requirements to all third-party partners**, including cloud providers

Source: CGI Voice of Our Clients 2024

Helping customers reap all the benefits of their vendors through strategic alliances

At CGI, we collaborate with more than 150 partners globally to address today's transformational business challenges. Strategically aligned to tier one technology providers, we are uniquely positioned to build, deploy and manage solutions to help you accelerate your digital journey.

Cybersecurity is key to CGI's IT strategy. We stay ahead of evolving threats with advanced security, ensuring client asset protection. Our strategic alliances with industry leaders bolster our trusted provider status and client confidence. In Canada, these partnerships are vital for delivering tailored, robust security solutions.

Sheila Mason
Vice President, Alliance Management

Amazon Web Services	Google	Microsoft
1650+	**500+**	**8,500+**
partner certifications	partner certifications	partner certifications

Security Alliances

CGI's cybersecurity partner ecosystem includes the most reliable solution vendors globally, enabling us to build and maintain strong multi-cloud capabilities. We leverage our partners' cloud and on-premises solutions to offer a blend of advanced threat detection, intelligent insights, and seamless integration to our valued customers. For managed services, we have adopted a 3-tiered Managed Detection and Response framework to help.

Our practitioners are seasoned security professionals who have been using their technologies for years to decades.

Expanding our strategic presence in Canada through national and local partnerships

Where innovation and the future of security are discussed, CGI makes its voice heard. Our experts have been participating in several initiatives with local Canadian partners.

Western Canada	Ontario	Quebec	Atlantic Canada
Provincial Security Advisory Council (PSAC) Alberta Innovates – Technology Futures	Ontario Ministry of Public and Business Service Delivery Canadian Cybersecurity Threat Exchange (CCTX)	Cybereco Forum in Cyber (FIC) Prompt In-Sec-M CenTech	Nova Scotia Community College - Cyber Security Program Dalhousie University, Faculty of Computer Science, - Women in CyberSecurity (WiCyS)

In today's interconnected world, cybersecurity transcends individual organizations—it's a critical national concern. The threat landscape continues to evolve, with sophisticated bad actors orchestrating cyberattacks that target not just private entities but also national infrastructure and institutions. By uniting as a collective force—governments, industries, and cybersecurity experts—we enhance our ability to detect, mitigate, and respond to these threats effectively.

Recognizing cybersecurity as a national imperative necessitates proactive measures, robust frameworks, and coordinated responses. Together, we can leverage our collective strengths to safeguard our digital infrastructure, uphold sovereignty, and maintain trust in our digital ecosystem amidst an increasingly complex and globalized threat landscape.

"At CGI, we believe that true cybersecurity leadership extends beyond industry innovation and into community collaboration. By partnering with the cybersecurity ecosystem, we have been able to share our expertise in Montreal, Québec province, but also across Canada, to strengthen the digital defenses of those dedicated to making a positive impact. These collaborations provide an excellent opportunity for us to demonstrate our expertise through presentations and educational sessions, while also granting us special access to clients, partner, and student community. This relationship enhances the security posture of all cyber ecosystems, and also positions CGI at the forefront of thought leadership in cybersecurity, underscoring our commitment to both industry excellence and community."
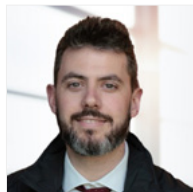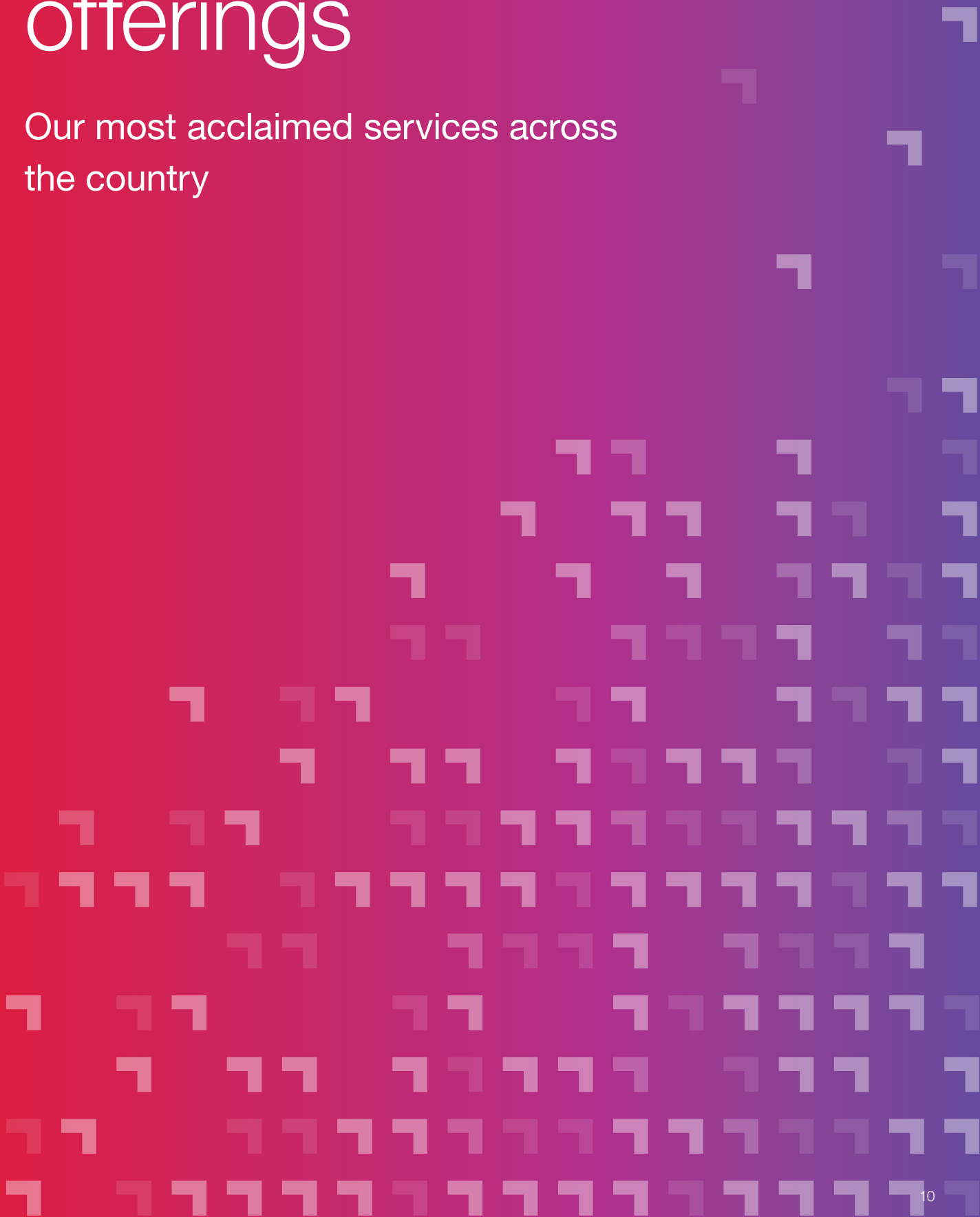

Pierre Le Calvez
Vice-President, Consulting
Services, Greater Montreal

CGI Canada top cybersecurity offerings

Our most acclaimed services across the country

Managed Microsoft Sentinel

CGI experts deploy and monitor Microsoft Sentinel, and perform incident response on your behalf

Features / capabilities

What's included:

- Scope definition and readiness assessment

- Sentinel platform installation and configuration

- Enablement of third-party and first-party data connectors (Azure Active Directory, Azure AD Identity Protection, Azure Activity, Defender 365 connectors, Security Events)

- Provision of Syslog collector and integration with CGI SOC tools

- Event monitoring for on-premises and cloud servers

- Threat management, incident management and response

Key benefits

Stay confident with:

- Complete Microsoft ecosystem visibility and optimization

- Unparalleled threat detection and response

- Maximum ROI on Microsoft cloud investments

- Highly certified expertise

> "Partnering with CGI allowed us to tap into their Microsoft Cloud Center of Excellence in order to accelerate the IT integrations and ensured we minimized the investments needed in the M&A process."
>
> **Eric Savary**, Vice President of IT, Previan

Category

$\rightarrow$ Strategic and Technical Advisory

$\rightarrow$ Training

$\rightarrow$ Architecture and Engineering

$\rightarrow$ Managed Services and Incident Response

Industry

$\rightarrow$ Public and private sectors

$\rightarrow$ All industries

As a member of the Microsoft Intelligent Security Alliance (MISA), CGI is able to provide comprehensive protection against sophisticated cyber threats, enabling strategic decision-making and swift response.

For more information about our Microsoft offers, follow the links below.

CGI Managed Sentinel

CGI Security Assessment

CGI Azure Security Architecture Assessment

CGI M365 Defender – XDR Managed Service

CGI Defend Against Threats with SIEM + XDR

CGI Data Security with Purview

CGI Multi Cloud Security Workshop

CGI Mitigate Compliance and Privacy Risks

Application Cybersecurity Review and Evaluation (ACRE) Accelerator

CGI experts advise and train you on how to secure your applications and integrate security testing in your software development process

Features / capabilities

What's included:

- Standardized report(s)

- DevSecOps

- Dynamic or static testing

- Software composition / Composition analysis (open source)

- Application development process coaching

- Cloud security posture management (CSPM)

- Infrastructure vulnerability scanning

- SAST/DAST/Secure application coding practices

- Interactive app testing (real-time visibility)

- Pipeline security (CI/CD, repositories)

Key benefits

- Alignment with data privacy legislation and regulatory requirements

- Future-proof design and maintenance of your environment

- High proficiency in the security controls required for application development and enhanced team culture

- Better risk containment and system resilience against modern cyber threats

- Increased scalability and reduced development cycles

- Enhanced login monitoring, CI/CD, SDLC, and IAM

- Better incident response capabilities and times

"Product and application owners are expecting accelerated outcomes from their development teams, while the global threat landscape continues to evolve. The ACRE accelerator enables client to provide more secure systems across the entire application lifecycle."

Denis Drouin, Director, Consulting Expert, Western Canada

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Supported

- In-house or outsourced custom app or API development

- On-premises or cloud

- Development of web or desktop applications

- Large environment

- Small subset of a more complex environment

- Organizations undergoing a fast digital transformation

- Fast-pace industries

- Microservices architecture

Cybersecurity Strategic Risk Advisory

Address the uncertainties of technology's connection to leadership goals and objectives

Features / capabilities

Securing your data becomes a catalyst to bridge your business objectives with your technology initiatives. Strategic risk is discussed with both decision makers and technology leaders in your organization, including:

- Your board of directors

- The C-suite (CISO, CIO, CFO, CTO, CEO, COO, etc.)

- Directors of IT and of product development

- Legal, audit and risk management committees

- Corporate communications leaders

Key benefits

- Clarity, for better syncing of your business and technical initiatives

- Compliance with your industry and local regulations

- Documented governance and policies

"Not every cybersecurity leader has the necessary bandwidth to maintain clarity on the risk posture of the entire business. CGI's Cybersecurity Strategic Risk Advisory and Virtual CISO consultants provide clarity for everyone to deliver value, faster."

Denis Drouin, Director, Consulting Expert, Western Canada

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Cybersecurity Incident Response and Business Crisis Planning

Tools to maintain business operations and prepare to navigate the high-stress complexities of major technology-related incidents

Features / capabilities

What's included:

- Disaster recovery planning sessions

- Incident response playbooks

- Overview of industry frameworks, such as SP 800.61(R2), ISO 27035, and Incident Command System

- Identification and documentation of critical services and infrastructure

- Business crisis tabletop exercises

- Incident response simulations

Key benefits

- Reduction of risk

- Executive synergy

- Better communication practices

- Enhanced disaster recovery plans

- Business and technical support and guidance

"Our clients receive great value from the incident planning process as their teams collaborate to learn and document how their business truly operates. Planning for resilience and restoration proactively identifies risk reduction opportunities, reduces the severity of unforeseen occurrences, then brings technologists and business leaders to a common understanding."

Mark van Engelen, Vice-President, Emerging Technologies, Western Canada

Category

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→ Architecture and Engineering

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Industry

→ Public and private sectors

→ All industries

Identity Access and Management (IAM) Services

Improve security and efficiency in managing your identities to achieve compliance and protect your digital data

Features / capabilities

Numerous organizations are subject to industry regulations such as HIPAA, PCI DSS, and NIST-800 53, which mandate specific security standards for data access and privacy. CGI's IAM suite offers a robust set of features including identity inventory, single sign-on, password management, data access controls, user provisioning, audit and compliance features. These collectively fortify data security and protect your organization.

What's included:

- IAM consulting

- IAM implementation

- IAM onboarding

- IAM managed services

- IAM framework and accelerators

Key benefits

- Scalable and custom-fit IAM solution

- IAM transformation

- Restructuring and centralization

- Modernization using next generation tools

> "CGI continues to do an incredible job delivering a managed cybersecurity service that adapts to the unique requirements and diverse landscape of the Atlantic System (…). If League Data could score this service an 11 out 10, it would do so."
>
> **Alan Brown**, COO, League Data

Category

→ Strategic and Technical Advisory

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Industry

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→ All industries

Data Privacy and Security Services

Empowering your organization to implement the highest level of data security and transparency measures, with ethical practices

Features / capabilities

What's included:

- Data discovery of (highly sensitive) personal identifiable information (PII/HSPII)

- Creation of policies to identify data during scans

- Adapting scan output formats to satisfy health system data warehouse (HSDW) requirements

- Certifying scan results to meet requirements

- Targeted scan on data sources to generate contextual data to de-identify PII/HSPII

- De-identification and tokenization of stationary and in-transit data

Key benefits

- Holistic data security posture management

- Compliance with regulations

- Improved data governance

"Just as oil fueled economies in the past, data now powers modern enterprises. While data wealth informs data-driven decisions, it is imperative that the data is de-anonymized to ensure compliance and privacy."

Amitabh Chakravorty, Director, Consulting Services, Ontario

Category

→ Strategic and Technical Advisory

→ Training

→ **Architecture and Engineering**

→ Managed Services and Incident Response

Industry

→ Public and private sectors

→ All industries

Supported

- On-premises, cloud, and hybrid environments

- Network, databases, systems, endpoints, and applications

Cybersecurity automation

Accelerate the implementation of enterprise-wide security through automation

Features / capabilities

What's included:

- DevSecOps

  – Continuous, early detection of vulnerabilities

  – Integration of security tools in SDLC

- SecOps

  – Creation of scripts to automate security tasks

  – Implementation of orchestration and leverage of infrastructure as code (IaC)

- Integration of development into SOAR tools to enrich the incident response flow

Key benefits

- Reduction of costs, efforts, and turnaround time

- Alignment with business objectives

- Acceleration of added value

- Shorter mean time to investigate (MTTI)

- Reduction of service interruptions due to human error

- Improvement of team member engagement

- Effective, secure, and reliable delivery

- Streamlining of complex processes

- Increase in scalability

"The integration of automation in the IT infrastructure accelerates cyberattack detection and vulnerability response, alleviates the burden on network and system administrators, and enables proactive security initiatives that fortify the enterprise ecosystem."

Hiba Moumneh, Director, Consulting Services, Greater Montreal Area

Category

$\rightarrow$ Strategic and Technical Advisory

$\rightarrow$ Training

$\rightarrow$ **Architecture and Engineering**

$\rightarrow$ Managed Services and Incident Response

Industry

$\rightarrow$ Public and private sectors

$\rightarrow$ All industries

Cybersecurity squad team

Get a dedicated team of CGI cybersecurity experts join your organization to accelerate your project delivery

Features / capabilities

What's included:

• Tailored team to fit your needs, with roles such as:

– Cybersecurity PMO/Scrum master

– Virtual CISO/Governance advisor

– Risk management consultant

– Cyberdefense consultant

– DevSecOps consultant

– Data practitioner

– Security analyst

– Vulnerability manager

– Industrial system specialist

– IAM architect

– Incident handler

– Asset security expert

Key benefits

• Agile transformation and implementation

• Better accompaniment and support

• Enterprise knowledge retention

Category

→ **Strategic and Technical Advisory**

→ Training

→ **Architecture and Engineering**

→ **Managed Services and Incident Response**

Industry

→ **Public and private sectors**

→ **All industries**

"Today, clients are harnessing cybersecurity squad teams to reinforce their defenses, mitigate risks, and embed security controls seamlessly into their application development lifecycle. By integrating these specialized teams, organizations not only bolster their resilience against cyber threats but also cultivate a proactive security posture that safeguards their digital assets and fosters trust among stakeholders."

Hiba Moumneh, Director, Consulting Services, Greater Montreal Area

Threat Risk Assessment as a Service (TRAaaS)

Take advantage of CGI assessment processes or extend your processes with CGI cybersecurity experts' support

Features / capabilities

What's included:

- Built-in TRA program governance

- Packaged threat risk assessments

- Matching required deliverables for each TRA

- TRA methodology based on modified combination of Harmonized Threat and Risk Assessment (HTRA) and Guide for Applying the Risk Management Framework to Federal Information Systems (NIST 800-37 SP)

- Standardized TRA Tool/Template for the Scoping of TRA Size - conducted at kick-off of each TRA

- Regular (weekly) Program Status Check-ins to review health of each TRA in progress and overall TRA program budget management

Key benefits

- Significant cost savings

- As-a-Service Package option

- Faster onboarding of TRA process

- Repeatability and consistency

- Application of common frameworks and processes

- A wide range of expertise availability, including IT, OT, Privacy

- Quicker turnaround for risk assessment reports

- Enhanced measurement of risk management across the organization's IT environment

- Readiness to provide C-level and audit with risk reporting

- In-depth knowledge of client's IT environment resulting in higher quality assessments

"The team at CGI are fantastic to work alongside, and I say alongside as this is a partnership to address the risk management shortfalls that CGI is assisting in closing the loop."

Public health services client – Canada

Category

→ Strategic and Technical Advisory

→ Training

→ Architecture and Engineering

→ Managed Services and Incident Response

Industry

→ Public and private sectors

→ Popular with utility and finance

Ideal for:

- Large enterprise networks

- 10+ critical core applications and systems

Penetration Testing as a Service

Vulnerability Management through planned annual due diligence across the enterprise

Features / capabilities

What's included:

• Built-in Penetration Testing (PT) program governance

• Packaged PT based on scope of IT environment

• Pre-PT scoping/sizing

• PT best practice tools and methodologies including:

  – Penetration Testing Execution Standard (PTES)

  – Open Web Application Security Project (OWASP)

  – Vulnerability Scanning Services

  – Penetration Testing Framework

  – And Latest vulnerabilities and threat profiles

• Standardized PT tools/templates based on client requirements

• PT reports which include all findings and vulnerability ratings but also recommended mitigating actions.

• Regular (weekly) Program Status Check-ins to review health of each PT in progress and overall PT program budget management

Key benefits

• Lower cost over the fiscal period (lower cost per PT)

• As-a-Service Package option

• Faster onboarding of PT process

• Repeatability and consistency

• Application of common frameworks and processes

• Quicker turnaround for PT reports

• Enhanced ability to track environment vulnerabilities across the program.

• In-depth knowledge of client's IT environment resulting in higher quality assessments

"100% confident we selected the right vendor. (…) (CGI has) full comprehension of requirements and expectation for delivery and schedule."
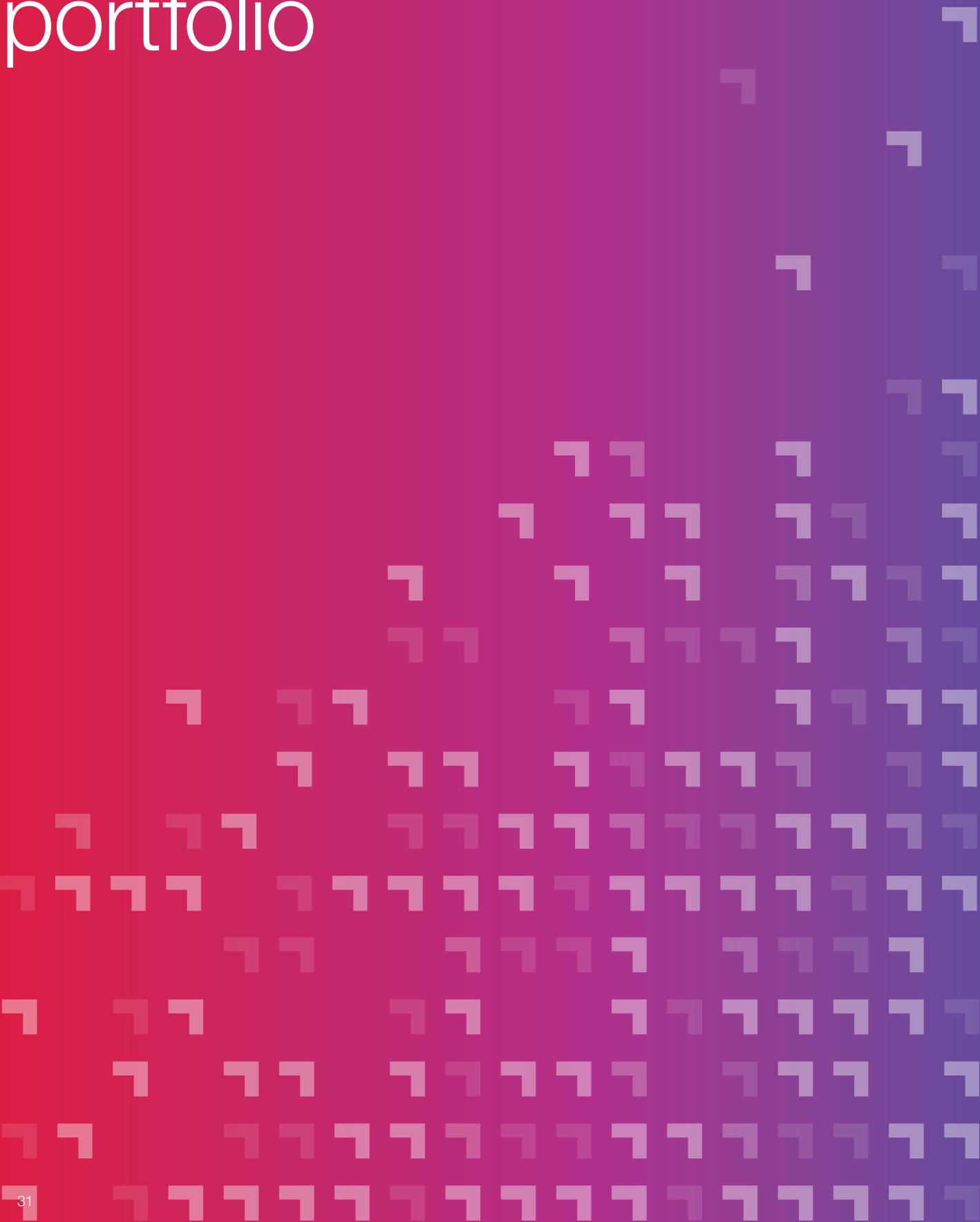
Energy client – Canada

Category

→ Strategic and Technical Advisory

→ Training

→ Architecture and Engineering

→ Managed Services and Incident Response

Cybersecurity service portfolio

Take full advantage of our security service catalog

CGI's cyber experts will help solve any of your data privacy and security challenges. Note that the following list is not exhaustive and that our consultants can work with you on a tailored offer to better respond to your need.

Category	Service
Strategic advisory	
Governance and compliance	Design governance frameworks and policies for your organization's security.
Enterprise security strategy	Develop a robust cybersecurity strategy for your organization that will allow you to limit risks, align with your organizational goals, comply with regulatory requirements, build cyber resiliency and protect business value.
Cyber risks and threat intelligence	Create a program for managing cyber risks and identifying and hunting against threat indicators to protect your digital footprint, identities and data.
Cybersecurity strategic risk advisory	Address the uncertainties of technology's connection to leadership goals and objectives.
DevSecOps advisory	Consult on how to secure your applications and integrate security testing in your software development lifecycle (SDLC) process.
Incident response and business crisis planning	Maintain business operations and prepare to navigate the high-stress complexities of major technology-related incidents
Managed services and incident responses	
Cyber incident response	Select and implement solutions to proactively protect, detect and respond to cybersecurity threats.
Identity and access management (IAM)	Improve security and efficiency in managing your identities to achieve compliance and protect your digital assets.
Data security as a service	Protect your data within your organization through a comprehensive, scalable, and cost-effective service.
Incident response and forensics	Create a robust approach for managing incidents and conducing forensics so that you can continually enhance your cybersecurity activities.
Security Operations Center (SOC) - Threat detection and response services	Enhance your organization's security posture against cyberthreats through continuous monitoring, rapid incident response, and proactive threat management.
Cybersecurity squad team	Get a dedicated team of CGI cybersecurity experts join your organization to accelerate your project delivery.
Vulnerability management	Secure your valuable assets, identify vulnerabilities and threats, and prioritize and accelerate remediation.

Category	Service
Architecture and engineering	
Infrastructure security	Build your security controls, systems, and storage through a squad-based approach.
Cloud security	Assess, implement, monitor, and operate your cloud infrastructure.
Edge security	Design and secure the deployment of industrial edge devices into your environment.
Endpoint security	Protect your workstations (including virtual machines), laptops, and mobile devices from malicious threats and cyberattacks that can bring your entire network down.
Digital workplace security	Seamlessly integrate remote workers in your on-premises, cloud, and hybrid environments while maintaining high levels of security.
Application security	Protect applications and include security controls in application development, including for SaaS.
Secure IT and OT integration	Integrate, secure, and monitor your critical infrastructure assets (OT).
Cybersecurity automation	Accelerate the implementation of enterprise-wide security through advanced, intelligent automation technology tools.
Testing and assurance	Develop and implement a testing and assurance program to ensure protection remains robust, identify gaps and weaknesses, and help guide your future cybersecurity investments.
Secure engineering and enabling technologies	Identify and implement the most appropriate cybersecurity solutions and tools for your organization in order to protect your business value.
Security architecture and engineering	Design cybersecurity solutions aligned with your organizational objectives.
Data privacy and security services	Implement the highest level of data security and privacy measures in alignment with organization strategy.
GenAI threat analysis	Deploy and configure GenAI-based cybersecurity solutions, such as Google Threat Intelligence, Microsoft Security Copilot, Tenable ExposureAI, and SentinelOne PurpleAI to reduce your meantime to detect and respond (MTTD / MTTR) evaluate and rank threats.

Can't find what you're looking for? Visit the next page to find your contact.

Contacts

CANADA
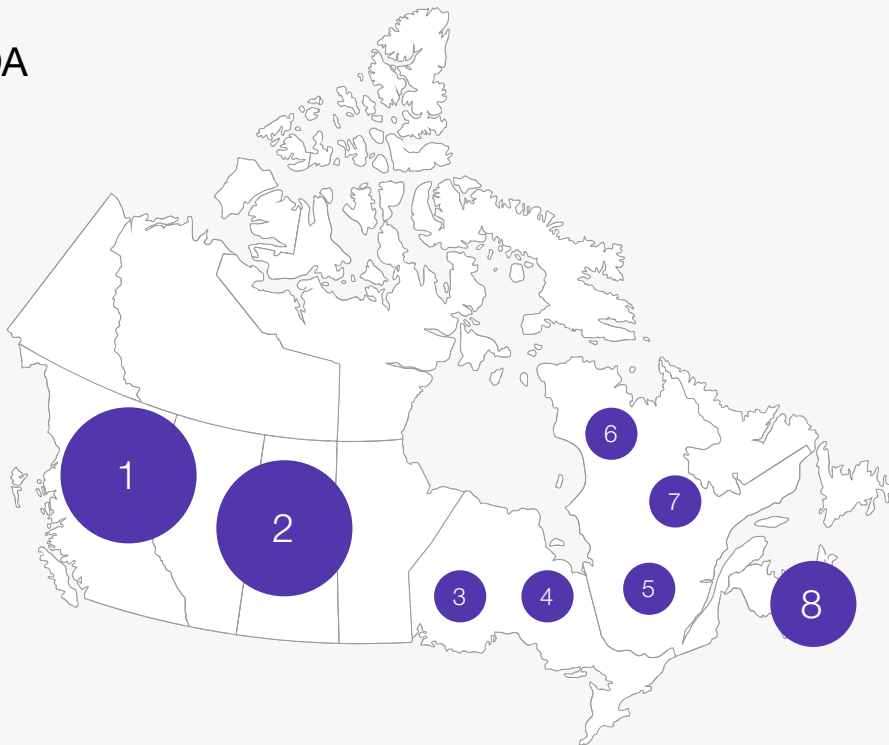
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About CGI

Insights you can act on

Founded in 1976, CGI is among the largest IT and business consulting services firms in the world.

We are insights-driven and outcomes-based to help accelerate returns on your investments. Across hundreds of locations worldwide, we provide comprehensive, scalable and sustainable IT and business consulting services that are informed globally and delivered locally.

[cgi.com](cgi.com)