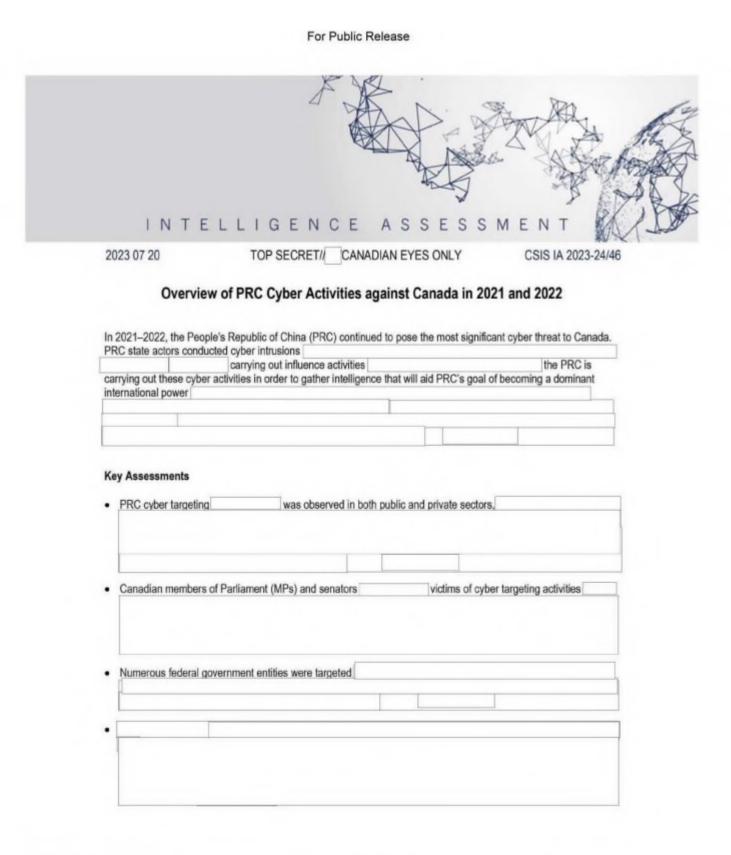


PIFI - Canada Release 045 - September 15, 2024





Canada

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1 Big Data is a term applied to the collection of datasets that are too large to be analyzed using traditional data-processing approaches. The term is associated with the explosion in data creation following the digital age of the 21st century; the collection, sale, analysis and exploitation of this data represents a major economic sector and indeed the primary economic value of much of the digital economy. All forms of predictive analysis, generative AI, and many other forms of data processing integral to the modern economy rely on Big Data. (U)



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In Octobe	er 2022, the Canadian bra	nch of an internation	nal human rights orga	nization detecte	d a compromise
by a likely Chin	nese state sponsored cybe	er group			
On July 1 Network complete	9, 2021, Canada joined a romise (MES) campaign to	coalition of 39 cour the PRC.	tries in publicly attrib	uting the Micros	oft Exchange
PRC leverages u	nique infrastructure to ta	arget Government	entities		
		•			



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	(TS//CEO)	
• In 2021,	that PRC cyber actors had tar	rgeted the House of Commons (HoC
	The threat actor targeted w	work email accounts of Parliamentaria
with a tracking members of the Inter-P	link email ² . Parliamentary Alliance on China (IPAC), an inter	rnational cross-party group of
legislators (TS//		
targeting of personal account	nts of GoC employees and politicians	
	E	
Threats to subnational govern	nments	
. PRC cyber actors target Cana	nadian municipal and provincial governments to g	gain access to the wealth of valuable
nformation that often resides on	n their networks, ernment services used by Canadians, provincial	As
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great deal of information	of likely interest to PRC threat actors.
grout dour of miorination	
Canadian universities	
C. Creating universities	e en
source of data that align PRC's 14 th Five-Year Pla transportation, artificial in Chinese research capaci	represent high-value targets for PRC cyber actors. Universities serve as an invaluable with PRC collection priorities to address its national economic development goals. The an outlined priorities for rapid advances in a number of technological fields, including energy, intelligence (AI), computing, electronics, quantum, and sciences. Developing domestic city is identified as key to the CCP's economic and political future. Illicit acquisition of foreign y, including via cyber means, is considered a legitimate method to advance these goals.
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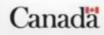
Canada

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Science & technology remain a priority for PRC col	llection
7. China is seeking to make advances in industries of economic value such as information technology, aviation, defence, maritime technology, and vaccines and virus treatments and is seeking	Military Civil Fusion (MCF) According to the US Department of State, the MCF is an aggressive national strategy of the CCP designed to enable China to develop the most technologically advanced military in the world. The strategy aims to eliminate barriers between military, civilian, defence
breakthroughs in technologies that are critical to those sectors.	and commercial sectors of research within and outside the PRC, including illegally acquiring and diverting other nations' latest technology discoveries. (U)
1	(S)
	As a major mineral exporter and investor in global

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mining operations, Cana	da is highly involved in this sector	
Critical Infrastructure		
8.		
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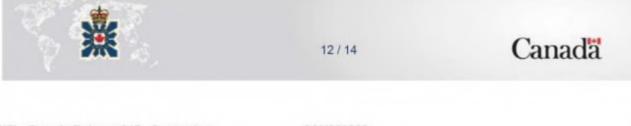
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PRC Canadian digital infrastru	icture
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11.	
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OUTLOOK	d exploiting vulnerabilities to a	dvance geopolitical objectives	The PRC is active in	
aloo toning a				
		cious cyber operations against Canadi nadian government entities is almost o		_
	ill likely remain a priority targe	t for PRC cyber collection activities. (rs/i	
14.				
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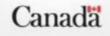


APPENDIX - GLOSSARY OF TERMS (U)

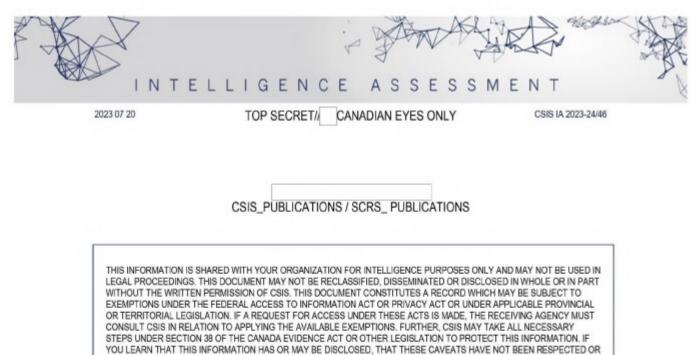
Adversary	The actor/organization responsible for utilizing a capability against the victim to achieve their intent.
Campaign	A set of threat actor tactics, techniques, or procedures (TTPs) with common characteristics, employed against multiple targets, to achieve an objective. A campaign is usually scoped to a given timeframe.
Capability	The tools, techniques and/or procedures of the adversary used in the activity.
Compromise	Any activity that circumvents the confidentiality, integrity or availability of resources from targeted IT systems.
Data Exfiltration	A threat actor has exploited vulnerabilities ultimately enabling them to steal data from IT systems.
Email Campaign	When a threat actor sends an email, or emails with similar characteristics, to multiple recipients. This often occurs over a few days.
Email with a malicious attachment	An email (usually socially engineered) including an attachment which, when opened, attempts to run malicious software on the user's workstation.
Malware	Portmanteau of malicious software, software intentionally designed to disrupt, damage, or gain unauthorized access to a computer system.
Infrastructure	The physical and/or logical communication structures the adversary uses to deliver, maintain control and exploit a capability against a victim.
Ransomware	A type of malicious software that encrypts or otherwise denies a user access to their data used to extract monetary or other concessions from a target.
Reconnaissance	Activity conducted by a threat actor to obtain information and identify vulnerabilities to facilitate future compromise(s) or lateral movement. Examples include probing, net scanning, and SQL injection attempts.
Remote Access	Unauthorized remote connection to a victim machine from a threat actor.
Spear Phishing	A common technique used to manipulate a victim user into disclosing information or credentials. Examples include specially crafted emails that appear to be legitimate correspondence, or links to official-looking websites requesting that the user log in.
Victim	The target of the adversary and against whom vulnerabilities and exposures are exploited and capabilities used.



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IF YOU ARE UNABLE TO ABIDE BY THESE CAVEATS, INFORM CSIS IMMEDIATELY.



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