

## GENESIS MARKET IMPACT ON CANADIAN ECONOMY

## BOTNET SALES IN CANADA IN 2021

GENESIS  
MARKET

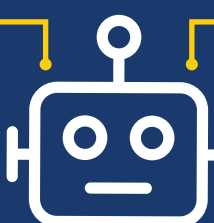
Launched in 2018, GM is a paid, private illicit market, though registration codes can now sometimes be obtained for free. The site repackages and resells infected computers that are part of botnets.

## EACH BOT COMES WITH:

COOKIE AND CREDENTIAL LIST  
STOLEN FROM VICTIMS' COMPUTERS

GEOLOCATION

IP ADDRESS

DATE OF LAST CONNECTION TO THE  
COMMAND AND CONTROL CENTER

OS

DATE OF INFECTION

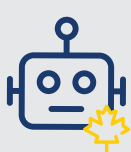
## CANADIAN BOT STATISTICS



Genesis Market has over **350,000 bots** for sale.  
Canada represents just **under 1% of the market.**

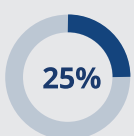
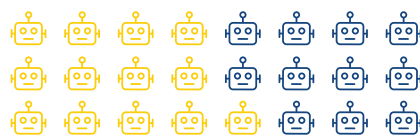
**3,000 Canadian bots**  
available on any given day

**Limited daily supply**  
of fresh Canadian bots



**400 Canadian bots** added on Genesis Market in 2021

**Over 50% of Canadian bots were infected** in 2018 and 2019



Only **25% percent of bots**  
were **updated** in 2021

Most bots have **not been updated in 2 years**

## SELECTION &amp; PRICING

What variables do malicious actors use to determine sales and price?

TIME SINCE  
LAST UPDATEINFECTION  
LENGTHNUMBER OF  
COOKIES/CREDENTIALS

PRICE

WINDOWS  
VERSION**4x**

Fresh bots can be  
**4x more expensive**



Bot prices are driven by the **number  
of credentials** (resources) it contains.

Bots updated in 2021 can **sell for \$350**,  
while older bots are **as low as \$1.**



**30% of Canadian bots** operate  
on a Windows enterprise version.



**62% of Canadian bots**  
operate on Windows 10.



Genesis Market facilitates **48  
sales** of Canadian bots **per day.**

Google, Facebook, Netflix, Twitter, Amazon and Discord  
**are the most frequently stolen credentials.**

Canadian bots provide credentials to  
close to **18,000 different websites.**

Most bots come with the **username and  
password** for each of their credentials.



Facebook passwords are often  
missing, as only **76% of bots**  
**provide this information.**

## IMPACT ON ECONOMY

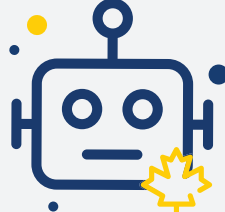
The estimated economic impact of Canadian bots sold on Genesis Market can be as high as \$19M.  
Based on the following hypotheses:



**BOTS LEAD TO FRAUD IN  
60%-90% OF CASES**



**BOTS GENERATE BETWEEN \$300  
AND \$1,000 IN REVENUE**



**BETWEEN 15 AND 60 CANADIAN  
BOTS ARE SOLD DAILY**

Bot impact depends on the share of bots still vulnerable to fraud, the money stolen through each bot, and the number of bots sold.