



Microsoft Security Intelligence Report

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Brazil

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Brazil

The statistics presented here are generated by Microsoft security programs and services running on computers in Brazil in 4Q14 and previous quarters. This data is provided from administrators or users who choose to opt in to provide data to Microsoft, using IP address geolocation to determine country or region.

On computers running real-time security software, most attempts by malware to infect computers are blocked before they succeed. Therefore, for a comprehensive understanding of the malware landscape, it's important to consider infection attempts that are blocked as well as infections that are removed. For this reason, Microsoft uses two different metrics to measure malware prevalence:

- *Encounter rate* is simply the percentage of computers running Microsoft real-time security products that report a malware encounter, whether the infection attempt succeeds or not.
- *Computers cleaned per mille*, or *CCM*, is an infection rate metric that is defined as the number of computers cleaned for every 1,000 unique computers executing the Malicious Software Removal Tool (MSRT), a free tool distributed through Microsoft update services that removes more than 200 highly prevalent or serious threats from computers.

Infection rate statistics for Brazil

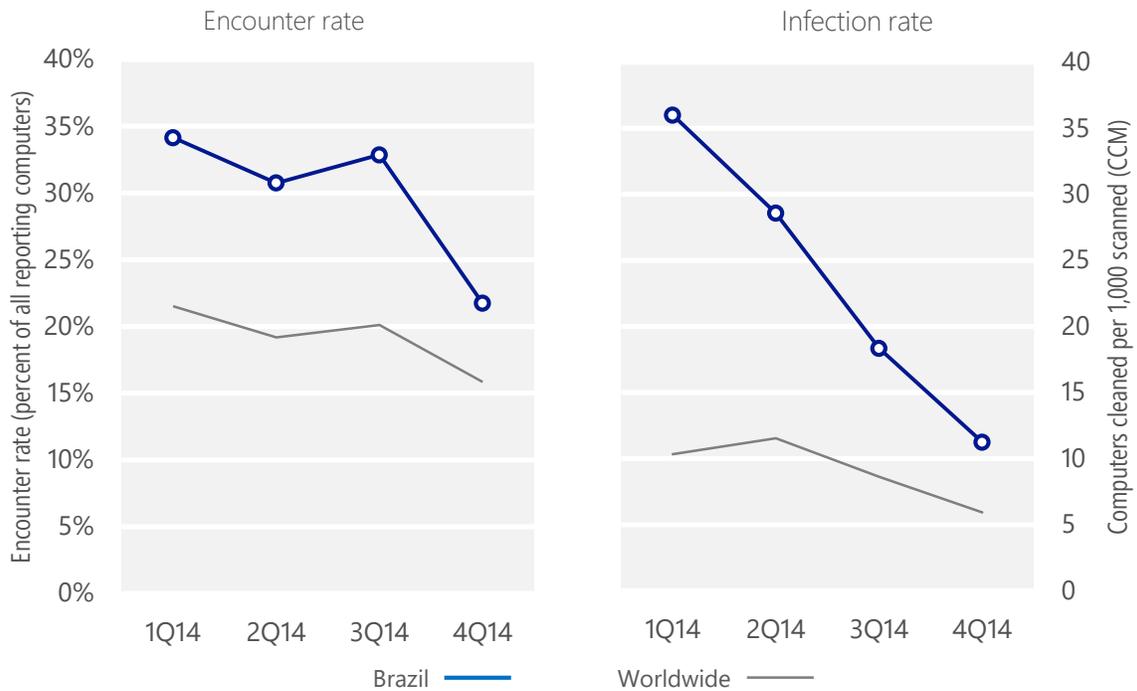
Metric	1Q14	2Q14	3Q14	4Q14
Encounter rate, Brazil	34.1%	30.8%	32.9%	21.7%
<i>Worldwide encounter rate</i>	<i>21.5%</i>	<i>19.2%</i>	<i>20.1%</i>	<i>15.9%</i>
CCM, Brazil	36.0	28.6	18.4	11.2
<i>Worldwide CCM</i>	<i>10.3</i>	<i>11.5</i>	<i>8.6</i>	<i>5.9</i>

Encounter and infection rates reported here do not include totals for the Brantall, Filcoute, and Rotbrow malware families. See pages 57–64 of [Microsoft Security Intelligence Report, Volume 17](#) for an explanation of this decision.

Encounter and infection rate trends

In 4Q14, 21.7% percent of computers in Brazil encountered malware, compared to the 4Q14 worldwide encounter rate of 15.9 percent. In addition, the MSRT detected and removed malware from 11.2 of every 1,000 unique computers scanned in Brazil in 4Q14 (a CCM score of 11.2, compared to the 4Q14 worldwide CCM of 5.9). The following figure shows the encounter and infection rate trends for Brazil over the last four quarters, compared to the world as a whole.

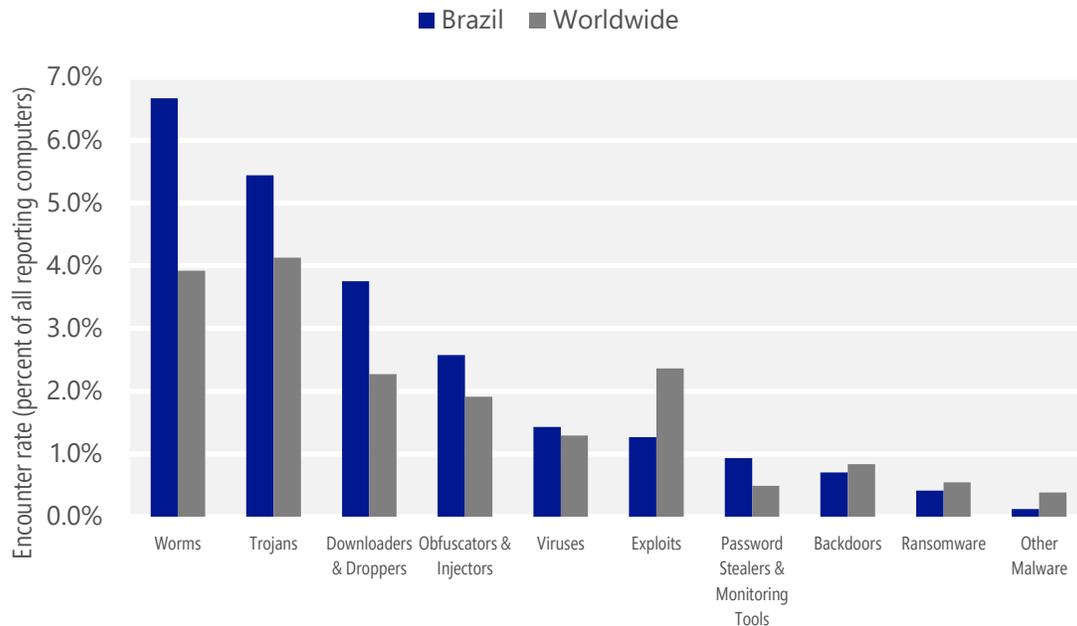
Malware encounter and infection rate trends in Brazil and worldwide



See the Worldwide Threat Assessment section of [Microsoft Security Intelligence Report, Volume 18](#) at www.microsoft.com/sir for more information about threats in Brazil and around the world, and for explanations of the methods and terms used here.

Malware categories

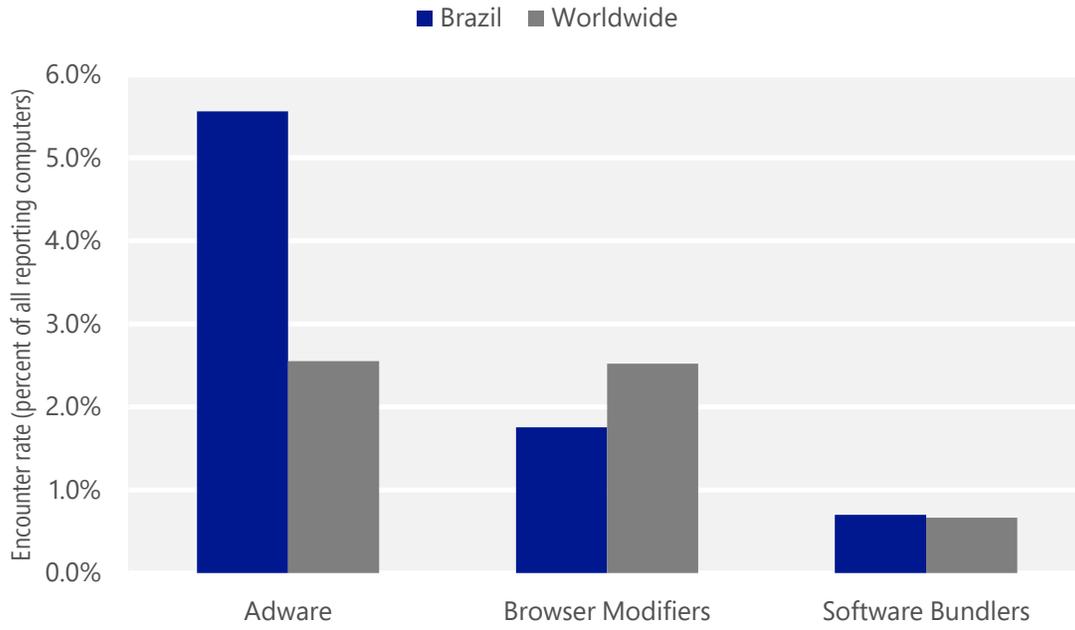
Malware encountered in Brazil in 4Q14, by category



- The most common malware category in Brazil in 4Q14 was Worms. It was encountered by 6.7 percent of all computers there, down from 9.9 percent in 3Q14.
- The second most common malware category in Brazil in 4Q14 was Trojans. It was encountered by 5.4 percent of all computers there, down from 9.6 percent in 3Q14.
- The third most common malware category in Brazil in 4Q14 was Downloaders & Droppers, which was encountered by 3.8 percent of all computers there, down from 9.0 percent in 3Q14.

Unwanted software categories

Unwanted software encountered in Brazil in 4Q14, by category



- The most common unwanted software category in Brazil in 4Q14 was Adware. It was encountered by 5.6 percent of all computers there, down from 9.3 percent in 3Q14.
- The second most common unwanted software category in Brazil in 4Q14 was Browser Modifiers. It was encountered by 1.8 percent of all computers there, down from 6.2 percent in 3Q14.
- The third most common unwanted software category in Brazil in 4Q14 was Software Bundlers, which was encountered by 0.7 percent of all computers there, up from 0.2 percent in 3Q14.

Top malware families by encounter rate

The most common malware families encountered in Brazil in 4Q14

	Family	Most significant category	% of reporting computers
1	VBS/Jenxcus	Worms	3.4%
2	JS/Proslikefan	Worms	1.4%
3	Win32/Banload	Downloaders & Droppers	1.3%
4	INF/Autorun	Obfuscators & Injectors	1.1%
5	Win32/Obfuscator	Obfuscators & Injectors	1.0%
6	Win32/Tugspay	Downloaders & Droppers	0.9%
7	Win32/Dynamer	Trojans	0.8%
8	Win32/Conficker	Worms	0.7%
9	Win32/Wysotot	Trojans	0.6%
10	Win32/Mujormel	Password Stealers & Monitoring Tools	0.6%

- The most common malware family encountered in Brazil in 4Q14 was [VBS/Jenxcus](#), which was encountered by 3.4 percent of reporting computers there. [VBS/Jenxcus](#) is a worm that gives an attacker control of the computer. It is spread by infected removable drives, like USB flash drives. It can also be downloaded within a torrent file.
- The second most common malware family encountered in Brazil in 4Q14 was [JS/Proslikefan](#), which was encountered by 1.4 percent of reporting computers there. [JS/Proslikefan](#) is a worm that spreads through removable drives, network shares, and P2P programs. It can lower the computer's security settings and disable antivirus products.
- The third most common malware family encountered in Brazil in 4Q14 was [Win32/Banload](#), which was encountered by 1.3 percent of reporting computers there. [Win32/Banload](#) is a family of trojans that download other malware. Banload usually downloads Win32/Banker, which steals banking credentials and other sensitive data and sends it back to a remote attacker.
- The fourth most common malware family encountered in Brazil in 4Q14 was [INF/Autorun](#), which was encountered by 1.1 percent of reporting computers there. [INF/Autorun](#) is a family of worms that spreads by copying itself to the mapped drives of an infected computer. The mapped drives may include network or removable drives.

Top unwanted software families by encounter rate

The most common unwanted software families encountered in Brazil in 4Q14

	Family	Most significant category	% of reporting computers
1	Win32/Pennybee	Adware	3.1%
2	Win32/Couponruc	Browser Modifiers	1.6%
3	Win32/Costmin	Adware	0.9%
4	Win32/Adpeak	Adware	0.4%
5	Win32/Softpulse	Software Bundlers	0.3%

- The most common unwanted software family encountered in Brazil in 4Q14 was [Win32/Pennybee](#), which was encountered by 3.1 percent of reporting computers there. [Win32/Pennybee](#) is adware that shows ads as the user browses the web. It can be installed from the program's website or bundled with some third-party software installation programs.
- The second most common unwanted software family encountered in Brazil in 4Q14 was [Win32/Couponruc](#), which was encountered by 1.6 percent of reporting computers there. [Win32/Couponruc](#) is a browser modifier that changes browser settings and may also modify some computer and Internet settings.
- The third most common unwanted software family encountered in Brazil in 4Q14 was [Win32/Costmin](#), which was encountered by 0.9 percent of reporting computers there. [Win32/Costmin](#) is an adware family that installs itself as a browser extension for Internet Explorer, Mozilla Firefox, and Google Chrome, and displays advertisements as the user browses the Internet.

Top threat families by infection rate

The most common malware families by infection rate in Brazil in 4Q14

	Family	Most significant category	Infection rate (CCM)
1	VBS/Jenxcus	Worms	4.7
2	Win32/Wysotot	Trojans	1.5
3	Win32/Sality	Viruses	1.1
4	Win32/Banload	Downloaders & Droppers	0.6
5	Win32/Ramnit	Trojans	0.5
6	Win32/Brontok	Worms	0.4
7	Win32/Sefnit	Trojans	0.4
8	Win32/Bancos	Trojans	0.3
9	MSIL/Bladabindi	Backdoors	0.3
10	Win32/Banker	Trojans	0.3

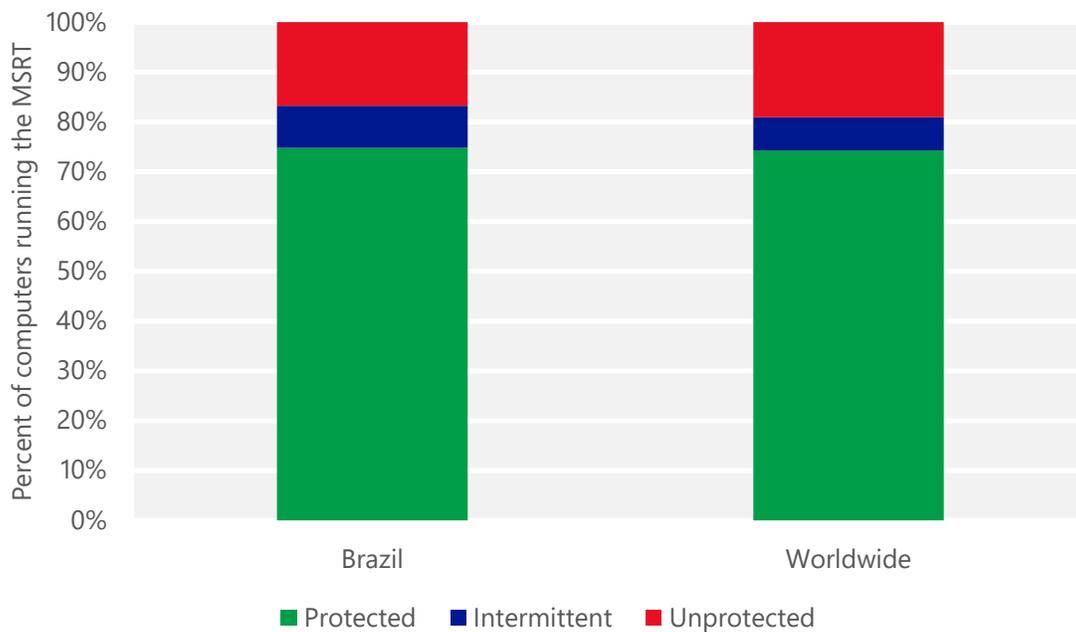
- The most common threat family infecting computers in Brazil in 4Q14 was [VBS/Jenxcus](#), which was detected and removed from 4.7 of every 1,000 unique computers scanned by the MSRT. [VBS/Jenxcus](#) is a worm that gives an attacker control of the computer. It is spread by infected removable drives, like USB flash drives. It can also be downloaded within a torrent file.
- The second most common threat family infecting computers in Brazil in 4Q14 was [Win32/Wysotot](#), which was detected and removed from 1.5 of every 1,000 unique computers scanned by the MSRT. [Win32/Wysotot](#) is a threat that can change the start page of the user's web browser, and may download and install other files to the computer. It is installed by software bundlers that advertise free software or games.
- The third most common threat family infecting computers in Brazil in 4Q14 was [Win32/Sality](#), which was detected and removed from 1.1 of every 1,000 unique computers scanned by the MSRT. [Win32/Sality](#) is a family of polymorphic file infectors that target executable files with the extensions .scr or .exe. They may execute a damaging payload that deletes files with certain extensions and terminates security-related processes and services.
- The fourth most common threat family infecting computers in Brazil in 4Q14 was [Win32/Banload](#), which was detected and removed from 0.6 of every 1,000 unique computers scanned by the MSRT. [Win32/Banload](#) is a family of trojans that download other malware. Banload usually downloads Win32/Banker, which steals banking credentials and other sensitive data and sends it back to a remote attacker.

Security software use

Recent releases of the MSRT collect and report details about the state of real-time antimalware software on a computer, if the computer's administrator has chosen to opt in to provide data to Microsoft. This telemetry data makes it possible to analyze security software usage patterns around the world and correlate them with infection rates.

A typical computer runs the MSRT three times each quarter, once for each monthly version of the tool that Microsoft releases. In the figure below, "Protected" represents computers that had real-time security software active and up-to-date every time the MSRT ran during a quarter; "Intermittently protected" represents computers that had security software active during one or more MSRT executions, but not all of them; and "Unprotected" represents computers that did not have security software active during any MSRT executions that quarter.

Percent of computers in Brazil and worldwide protected by real-time security software in 4Q14



Drive-by download sites

A *drive-by download* site is a website that hosts one or more exploits that target vulnerabilities in web browsers and browser add-ons. Users with vulnerable computers can be infected with malware simply by visiting such a website, even without attempting to download anything. Drive-by download pages are usually hosted on legitimate Web sites to which an attacker has posted exploit code. Attackers gain access to legitimate sites through intrusion or by posting malicious code to a poorly secured web form, like a comment field on a blog. Compromised sites can be hosted anywhere in the world and concern nearly any subject imaginable, making it difficult for even an experienced user to identify a compromised site from a list of search results.

Search engines such as Bing have taken a number of measures to help protect users from drive-by downloads. As Bing indexes the web, pages are assessed for malicious elements or malicious behavior. Clicking the link in the list of search results displays a prominent warning, saying that the page may contain malicious software.

At the end of 3Q14, Bing detected 0.32 drive-by download URLs for every 1,000 URLs hosted in Brazil, compared to 0.41 worldwide. At the end of 4Q14, Bing detected 0.27 drive-by download URLs for every 1,000 URLs hosted in Brazil, compared to 0.45 worldwide.

Drive-by download pages per 1,000 URLs hosted in Brazil and worldwide

Metric	October 1, 2014	January 1, 2015
Drive-by download pages per 1,000 URLs, Brazil	0.32	0.27
<i>Drive-by download pages per 1,000 URLs worldwide</i>	<i>0.41</i>	<i>0.45</i>



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