

Acronis

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WHITE PAPER

Acronis Cyber Protect – Wide Recognition in Independent Evaluations

Product
testing by
third parties

Independent evaluations: An indicator for performance

Any cybersecurity or data protection solution can sound good on paper. The only way to see if it delivers what it claims is to get independent, respected experts to test it against real-world scenarios.

There are eight large independent laboratories around the globe that are recognized as establishing the industry standards and best practices for testing:

- 1. AV-Comparatives** – An independent organization in Austria that conducts systematic testing and assessment. Using one of the largest sample collections worldwide, it checks the performance of security software in real-world environments. AV-Comparatives offers a large variety of tests including real-world protection, malware detection, performance, false alarm, anti-phishing, heuristics and behavioral detection, malware removal, and business security tests.
- 2. AV-TEST** – With more than 400 public tests published per year and around 1 million web visitors per month, the independent German supplier of services in the fields of IT security and antivirus research focuses on the detection and analysis of the latest malicious software and its use in comprehensive testing of security products. As a result of more than 15 years of independent testing and certification of security products, AV-Test has become a widely trusted resource by end users, corporate users, public agencies, providers of IT security products, and media around the globe.
- 3. ICSA Labs** – An independent testing authority and division of Verizon, ICSA Labs tests and certifies IT security software against industry standards in numerous categories including advanced threat defense, antimalware, firewalls, network IPSs, and email protection. ICSA Labs does not provide comparative test results, but rather certifies that a given product has reached the required standards without disclosing how many trials/cycles a particular vendor's product had to go through to reach them.
- 4. MRG Effitas** – A UK-based, independent IT security research organization that provides evaluation services and certification for endpoint protection software, advanced persistent threats (APT) protection, machine-learning detection, sandboxing technologies, and web application firewalls. MRG Effitas has a strong focus on web and online banking security but conducts other IT security tests as well.
- 5. NioGuard Security Labs** – Based in Ukraine and part of Kharkiv National University of Radio Electronics, NioGuard Security Labs combines the expertise of business practitioners and academic researchers. The main focus of their IT security evaluations is ransomware and cryptojacking.
- 6. NSS Labs** – An independent information security research and advisory company that tests IT security software, appliances and hardware security solutions such as advanced endpoint protection, web browser security, breach prevention systems, data center firewalls, secure socket layers, and software-defined wide area networks.
- 7. SE Labs** – Named after its founder, Simon Edwards, the UK-based independent testing facility evaluates personal and business technologies including hardware and software.
- 8. Virus Bulletin** – Virus Bulletin focuses on security research papers, its annual VB Conference, and bi-monthly product certifications. Virus Bulletin's VB100 certification is based on samples listed on the WildList, requiring a product to score 100% detection rate and zero false positives.

All but two of these independent laboratories are members of the Anti-Malware Testing Standard Organization (AMTSO). AV-Comparatives left in 2020, while NSS Labs sued AMTSO and a number of famous security vendors in 2019. It lost the trial.



Acronis as part of the cybersecurity industry

Acronis started to invest in cybersecurity since 2016 with antiransomware and blockchain technologies. Since then, it became a member of many notable and respected global independent security organizations including VirusTotal, Cloud Security Alliance, Microsoft Virus Initiative, Anti Phishing Working Group, AMTSO, and others. By joining these organizations, Acronis committed to fair independent testing standards – something the company has never avoided. In fact, our antimalware and antiransomware technologies have been evaluated by a large number of these established independent laboratories and are often cited as top performers in the conducted tests.

Acronis Cyber Protect: Independent evaluations

Acronis Cyber Protect was introduced on the market in 2020 but had already been evaluated by AV-Comparatives, ICSA Labs, AV-Test, and Virus Bulletin. The solution was recognized as a top performer in all conducted tests. Detailed overviews of each test are provided below.

TESTING LABORATORY	REAL-WORLD DETECTION	PREVALENT MALWARE DETECTION	COLLECTION SET DETECTION	FALSE POSITIVES	PERFORMANCE
AV-TEST.org	NA	100%	NA	0	NA
AV-Comparatives	98%	98.9%	NA	0	Very fast; fast
ICSA Labs	98.23%	99.89%	99.89%	0	NA
VirusBulletin VB100	NA	100%	98.35%	0	NA

AV COMPARATIVES: APPROVED BUSINESS SECURITY PRODUCT



"The product's simplicity and clarity mean that it would be particularly well-suited to smaller businesses and less-experienced administrators."

The Business Security Test 2020 (March – June) by AV Comparatives consisted of three main parts. In each part, Acronis Cyber Protect achieved perfect results, earning the Approved Business Security Product certification:

- **Real-World Protection Test**, which examines the response to real-world malware attacks that a typical user can encounter on the internet. Acronis Cyber Protect scored a **98% detection rate**.

More importantly, it caused **zero false positives** – a distinction held by only three other vendors in the test.

	Blocked	User dependent	Compromised	PROTECTION RATE [Blocked % + (User dependent %)/2]*	False Alarms
Fortinet	767	-	-	100%	11
Panda	767	-	-	100%	27
Kaspersky	766	-	1	99.9%	0
Avast	766	-	1	99.9%	5
Microsoft	765	-	2	99.7%	8
ESET	764	-	3	99.6%	0
K7	764	-	3	99.6%	15
Bitdefender, G Data	763	-	4	99.5%	2
Sophos, VIPRE	763	-	4	99.5%	3
VMware	762	-	5	99.3%	2
Elastic	762	-	5	99.3%	41
Cisco	757	-	10	98.7%	1
SparkCognition	754	-	13	98.3%	0
Acronis	752	-	15	98.0%	0
CrowdStrike	747	-	20	97.4%	21
Cybereason	743	-	24	96.9%	20
FireEye	740	-	27	96.5%	1

- **Malware Protect Test**, which is based on malware that infects systems through via a local area network or removable device, rather than directly from the internet. Acronis Cyber Protect scored a **98.8% protection rate**, again with **0% false-positive rate**.

- **Performance Test**, which evaluates the impact of the tested solutions on system’s performance. In all eight categories Acronis Cyber Protect demonstrated either high or very high performance.

FP rate	Number of FPs on non-business software
Very low	0 - 5
Low	6 - 25
Medium	26 - 50
High	51 - 100
Very high	101 - 200
Remarkably high	> 200

FP rate on non-business software	
Acronis, Avast, Bitdefender, Cisco, ESET, Fortinet, G Data, Kaspersky, Sophos	Very low
Cybereason, FireEye, SparkCognition, Microsoft	Low
Elastic, Vjpre, VMware	Medium
K7, Panda	High
CrowdStrike	Very high
-	Remarkably high



ICSA LABS ENDPOINT ANTI-MALWARE CERTIFIED

“Acronis’s endpoint anti-malware product provided very good real time protection against malware known to exist on systems worldwide.”

In ICSA Labs’ Anti-Malware Testing Program, endpoint antimalware solutions are tested both on their ability to detect malicious threats and to avoid false positives against thousands of innocuous test cases. In July 2020, Acronis Cyber Protect has scored a **98.2% detection rate for real-world, known and unknown malware**, a **99.9% detection rate for on-demand malware scanning**, and returned **zero false positives**.

Real Time Protection					
June 2020 Test Set					
File Infectors			Non-File Infectors		
NA	NA	NA	Detected 1,716	Total 1,747	Eff 98.23%

On Demand Scanning					
June 2020 Test Set					
File Infectors			Non-File Infectors		
NA	NA	NA	Detected 1,745	Total 1,747	Eff 99.89%

False Positive Testing

0 False Positives

AV-TEST

In March, AV-TEST.org ran Acronis Cyber Protect’s technology against their usual testing routine for antivirus business solutions. This test evaluates a solution’s protection, performance, and usability.

Acronis’ technology has scored a **100% detection rate**, causing **zero false positives**.

AV-TEST, malicious set:	AV-TEST, clean file set:
• Total samples: 6,932	• Total samples: 180,000
• Detected samples: 6,932	• Detected as malicious: 0
• Missed samples: 0	• Detected as clean: 180,000
• Detection rate: 100%	• False-positive rate: 0%

VB100 CERTIFICATION



“Virus Bulletin extends their congratulations to Acronis who are newcomers to the VB100 certification, achieving their first certification at 100% malware detection + 0% false-positive rate on our certification sets.”

CERTIFICATION TEST, malicious set:

- Total samples: 2029
- Detected samples: 2029
- Missed samples: 0
- Detection rate: 100.00%

CERTIFICATION TEST, clean file set:

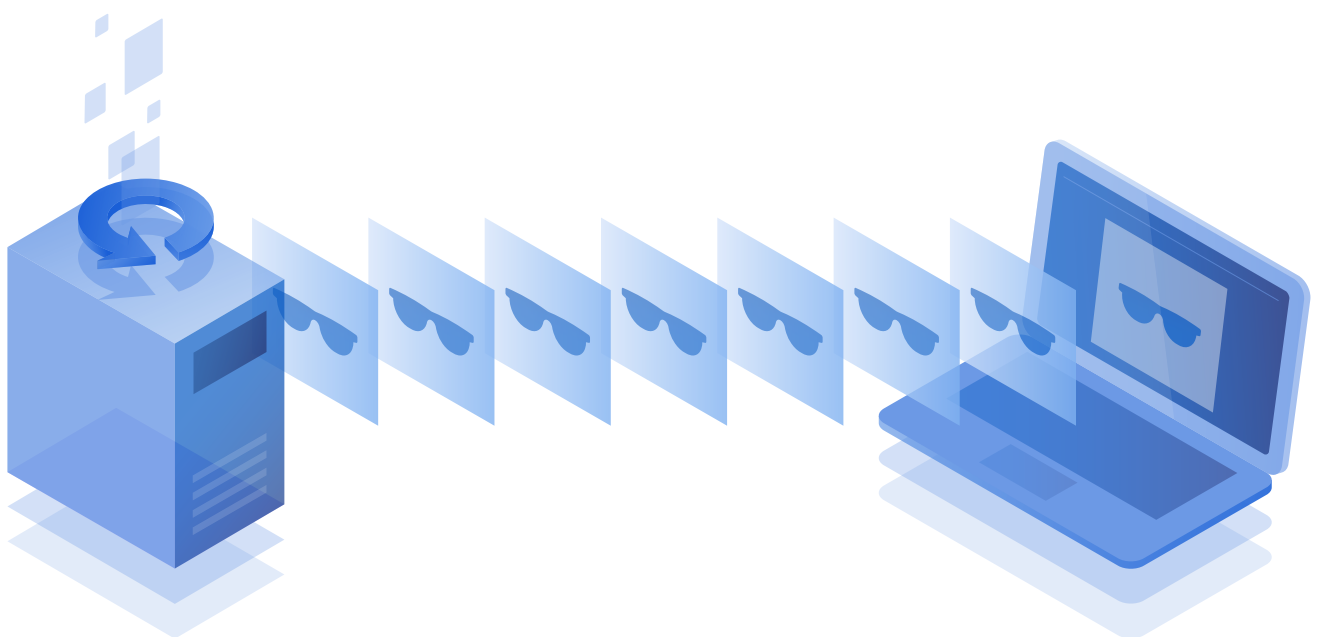
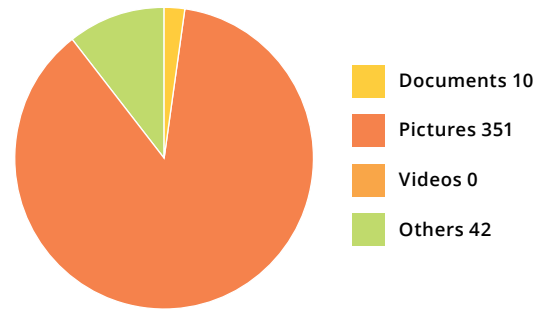
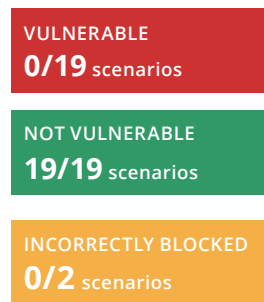
- Total samples: 99990
- Detected as malicious: 0
- Detected as clean: 99990
- False-positive rate: 0.00%

The VB100 test, conducted by Virus Bulletin, evaluates the detection rate for real-world malicious executables (available as samples on the WildList) and the false-positive rate for blocking legitimate programs. Acronis Cyber Protect scored perfect results in both categories with a **100% detection rate** and **zero false positives**.

RANSIM TEST PERFECT RESULTS

The RanSim test is not a certification test. It’s a tool provided by the renowned security awareness company KnowBe4 that employs one of the world’s most famous hackers, Kevin Mitnick. The tool serves as a ransomware simulator which evaluates a solution’s endpoint protection against 18 ransomware infection scenarios and one cryptomining infection scenario. Acronis Cyber Protect scored perfectly in all 19 scenarios.

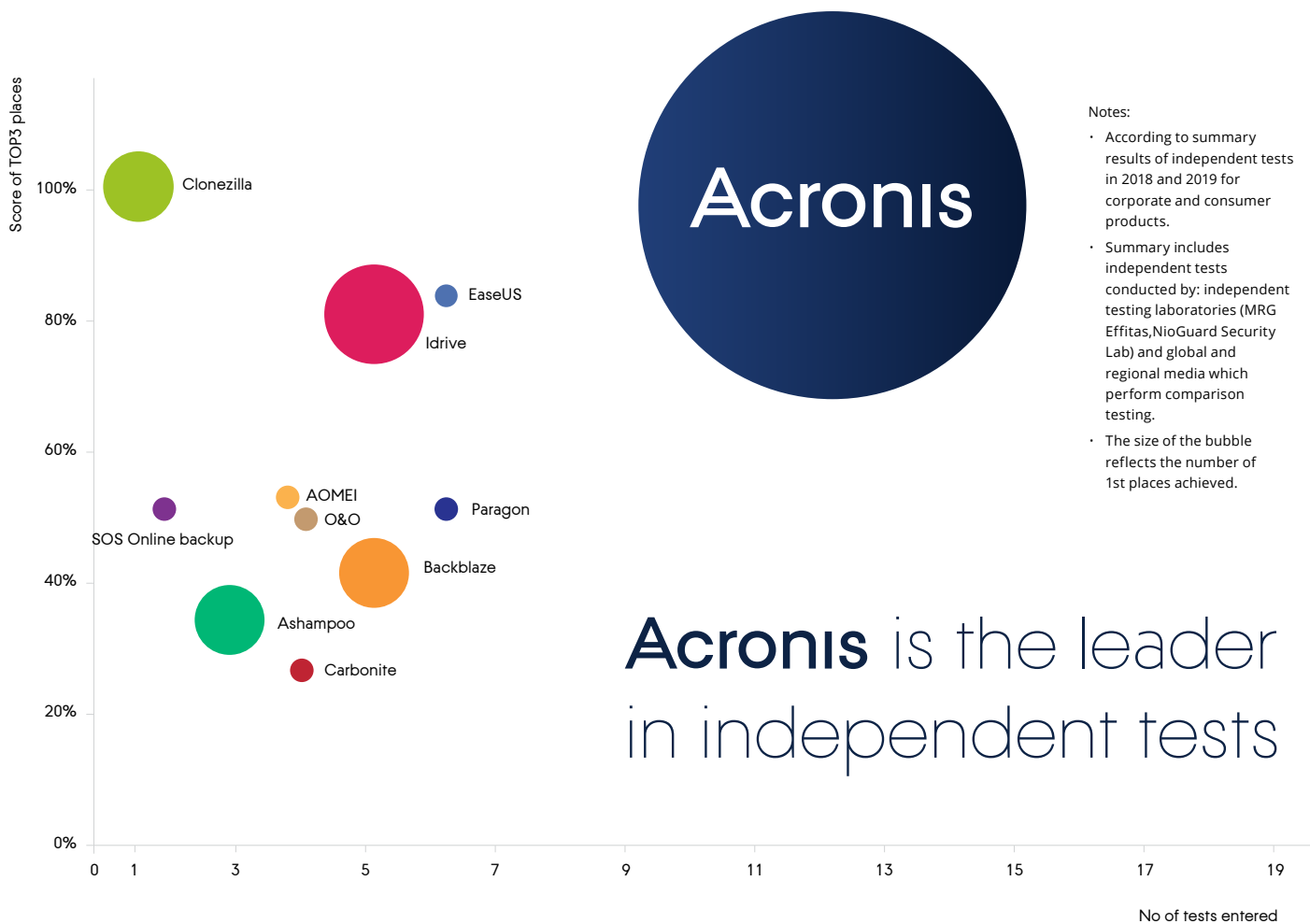
FOUND 403 EXPOSED FILES





Acronis: a winner in independent tests before Acronis Cyber Protect

Acronis is an established leader in data protection technologies, earning more top three placements in independent tests than any other solution. The same data protection technologies are used in Acronis Cyber Protect to ensure best-of-breed reactive protection.



- Notes:
- According to summary results of independent tests in 2018 and 2019 for corporate and consumer products.
 - Summary includes independent tests conducted by: independent testing laboratories (MRG Effitas, NioGuard Security Lab) and global and regional media which perform comparison testing.
 - The size of the bubble reflects the number of 1st places achieved.

Acronis is the leader in independent tests

NIOGUARD ANTI-CRYPTOJACKING TEST: AAA CLASS

The test conducted by NioGuard Security Lab in 2019 analyzed a variety of corporate endpoint security products from industry leaders to evaluate their effectiveness to detect cryptojacking in real-time. The tests were based on publicly available cryptominers, including packed and obfuscated versions. Acronis' technology scored perfect **AAA class** with **94% protection rating**, **0% false positive rate**, and **95% accuracy**.

Product	False Positive Rate	Protection Rating	Protection Rating, %	Accuracy	Protection Class
Acronis Backup	0%	68	94%	95%	AAA
Solution A	0%	16	22%	28%	Not Passed
Solution B	0%	70	97%	97%	AAA
Solution C	0%	54	75%	77%	A
Solution D	0%	68	94%	95%	AAA
Solution E	0%	53	74%	77%	A
Solution F	0%	56	78%	79%	A
Solution G	0%	50	69%	72%	A
Solution H	0%	59	82%	85%	AA

MRG EFFITAS: BEST ANTIMALWARE PROTECTION

In 2017, MRG Effitas tested a number of endpoint data protection solutions for their ability to protect against ransomware. The Acronis Active Protection technology, part of Acronis Cyber Protect, was determined to be a clear winner, as it was the only solution able to protect the backups from all of the ransomware families used in the test. It also ranked as a leader in the performance and self-defense tests.

	Acronis	CrashPlan	EaseUS	Genie	IDrive	Macrium	Nova	Paragon
Cerber	✓	✓	✓	✓	✓	✓	✓	✓
Troldesh	✓	✓	✓	✗	✗	✓	✓	✓
Dharma	✓	✗	✗	✗	✗	✗	✗	✗
Locky	✓	✓	✓	✗	✗	✓	✓	✓
Havoc	✓	✗	✗	✗	✓	✗	✗	✗
Globe	✓	✓	✓	✗	✗	✓	✓	✓
CruptoMix	✓	✗	✓	✗	✓	✓	✓	✗
Sage	✓	✗	✓	✓	✓	✓	✓	✓
CryptoShield	✓	✓	✓	✓	✓	✓	✓	✓
GoldenEye	✓	✗	✗	✗	✗	✗	✗	✗

AV-TEST: BEST BACKUP AND RECOVERY

In 2017, AV-TEST compared a number of backup and recovery products to evaluate their performance and antiransomware protection. In the final report, Acronis' backup and recovery technology was the clear winner: Its performance was 10-times faster than the competition; delivered unmatched protection against ransomware; enabled automatic recovery; and scored a higher usability rate.

Ransomware Protection

