

DATA SHEET

Cymulate Breach and Attack Simulation (BAS)

Are Our Cyber Defenses Secure?

Organizations invest significant time and money into their security defenses, but how do you know if your security controls and operational response can stop the latest sophisticated cyber attack?

The worst time to find weaknesses in your security defenses is during a cyber incident. By moving from a defensive position and adopting an offensive mindset, you can routinely test and validate that your security controls can prevent and detect the latest emergent threats.

Don't Speculate. Simulate.

When it comes to answering the above questions with conviction, don't speculate, simulate. Breach and attack simulations use real-world attack scenarios, in a production-safe mode, to test and validate your security controls against the latest emergent threats.

Cymulate Breach and Attack Simulation (BAS) fully automates attack scenarios with real-world tactics and techniques to test and validate:

- **Immediate threats**
- **Email gateway**
- **Web gateway**
- **Web app firewalls**
- **Endpoint security**
- **Data exfiltration**
- **Full kill-chain scenarios**
- **APT groups ***
- **Cloud security ***
- **Network security ***
- **Containers and kubernetes ***
- **SIEM detections ***
- **Other custom scenarios ***

** Available with BAS Advanced Scenarios*

The Cymulate Threat Research Group updates the Cymulate platform daily with the latest immediate threats. Immediate threats can be set to auto-run, with notification to security leaders when new threats are not blocked or detected by your security controls.

Cymulate best-practice assessments provide comprehensive validation of your individual security controls using a wide range of attack types and methods. In addition, the advanced scenario templates allow you to assess your full security architecture using full kill-chain attacks and malicious behaviors used by well-known threat actor APT groups.

Proactively test your security defenses to validate that security controls remain effective as new vulnerabilities and threats emerge.

Cymulate BAS Benefits

Real-world attack scenarios

Simulate the latest threats and APT groups to determine if your security controls can stop a sophisticated, real-world attack.

Identify security gaps

Find gaps and weaknesses in your security defenses that could result in a cyber breach.

Optimize security controls

Configure and tune your security defenses with mitigation guidance, detection rules and automated IOC updates to fortify your security controls.

Reduce exposure risk

Continuously measure and improve your security posture to reduce the risk of a breach.

Continuous Improvement of Your Security Posture

Security is built upon a layered defense that needs continuous testing and validation to assess if security controls are operating as intended. The Cymulate BAS solution tests for detection and alerting on threats to confirm that controls are functioning correctly or if threats can bypass your controls. Security control effectiveness is scored independently and aggregated for an overall risk posture based on industry-standard frameworks.

The Cymulate BAS solution includes:

- **Best practice assessments** - Automated testing and validation of key security controls and advanced threat scenarios using the best practice assessments and pre-built templates in the Cymulate platform.
- **Comprehensive security dashboards** - Responsive dashboards that show the health of each security control with an aggregate of your total security posture and exposure level (minimal, low, medium or high).
- **Extensive simulation scenarios** - Fully automated, pre-built attack simulations from a vast library of advanced threats and malicious behaviors.
- **Leading security vendor integrations** - Optimize investments in your SIEM, SOAR, GRC, EDR, firewall and ticketing systems via APIs to validate and improve security technology detection and response capabilities.
- **Actionable reporting and findings** - Proactively manage your risk using actionable reports and findings that provide insights into breach feasibility and guidance for risk prioritization given your business context.
- **Automated control updates** - Integrate security controls and push new indicators of compromise (IoCs) to mitigate control gaps identified by the latest assessments.
- **Mitigation guidance and rules** - Remediation insights provide straightforward guidance to mitigate threats, fine tune controls and refine policies for better protection.
- **MITRE ATT&CK heatmap** - Reports and findings are mapped to the MITRE ATT&CK® framework with heatmaps showing areas of strengths and weaknesses across the MITRE tactics and techniques.
- **Cross platform solution** - Extensive attack simulation and immediate threat testing across on-premises, cloud and hybrid environments, for a wide variety of operating systems (Windows, Mac, Linux).

Why Choose Cymulate?



Depth of attack simulations

Over 120,000 attack simulation resources from real-world attack scenarios for comprehensive testing of your security defenses.



Production safe

The full suite of attack simulations and test scenarios are completely production-safe and will not cause harm to your production systems.



Automated testing

The attack simulations are fully automated, enabling continuous validation of security controls and emerging threats.

About Cymulate

Cymulate, the leader in exposure management and security validation, provides the single source of truth for threat exposure and the actions required to close security gaps before attackers can exploit them. More than 500 customers worldwide rely on the Cymulate platform to baseline their security posture and strengthen cyber resilience with continuous discovery, validation, prioritization, and guided remediation of security weaknesses. Cymulate automates advanced offensive security testing to validate controls, threats, and attack paths. As an open platform, Cymulate integrates with existing security and IT infrastructure and drives the workflows of the exposure management process. For more information, visit www.cymulate.com.

Get a Demo