

BREAKINGPOINT® CLOUD™ — MICROSOFT® AZURE® DDoS PROTECTION VALIDATION

DATA SHEET

KNOW YOUR CLOUD SECURITY

PROBLEM: ENSURING CLOUD DDoS PROTECTION IS WORKING

The frequency and scale of distributed denial-of-service (DDoS) attacks are increasing and they are becoming easier to carry out. It is no surprise that DDoS is a leading cause of business service outage and a top concern for organizations today.

While cloud providers enable a variety of options to build cost-effective, elastic, and highly-available applications, enterprises have a shared responsibility to ensure their DDoS protection controls are properly configured. To protect both their bottom line and user experience, organizations need a way to validate their cloud-based DDoS protection.

SOLUTION: PROACTIVE, CONTINUOUS CLOUD DDoS PROTECTION VALIDATION

As cloud is the new normal, continuous testing of DDoS protection services on cloud infrastructures needs to be the new normal too.

Ixia BreakingPoint Cloud—Microsoft Azure DDoS Protection Validation provides continuous insights into the security posture of cloud environments by safely modeling DDoS traffic so you can assess the effectiveness of your DDoS protection services.

BreakingPoint Cloud builds on 20+ years of leadership in network security testing to reveal your security exposure across public, private, and hybrid networks. The ongoing research of our Application and Threat Intelligence (ATI) team ensures regular updates so you have access to the latest breach scenarios and threat simulations.

HIGHLIGHTS

- Validate DDoS defenses of your production workloads hosted on Microsoft Azure
- Microsoft Azure approved
- Safely and cost-effectively simulate botnets to prepare security teams for a DDoS attack before it happens
- Trade assumptions for real data so you know that security controls are deployed correctly
- Ensure optimal configuration of DDoS protection services
- Continuously prove your DDoS mitigation compliance with data-driven evidence
- Reduce data security compliance audit time
- Prove DDoS attacks are accurately identified and reported
- Perform regularly-scheduled validations using an always up-to-date library of DDoS attacks



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[HTTPS://BREAKINGPOINT.CLOUD/TRIAL](https://breakingpoint.cloud/trial)

KEY FEATURES

- Validation-as-a-service through a software-as-a-service (SaaS) – consume it with your browser, no software to install, always up to date
- Built-in safety features validate the target IP address is owned by the Azure account that executes the DDoS validation
- Offers a simplified user interface and an “out-of-the-box” experience
- Pre-defined DDoS test sizing and test duration profiles enables safer validations by eliminating the potential of configuration errors
- Pay-per-use model, enables the flexibility to grow validations with your business and network growth
- Elastically scales DDoS simulation agents
- Large-scale DDoS validation available with assistance from Microsoft Azure and Ixia

KEY USE-CASES

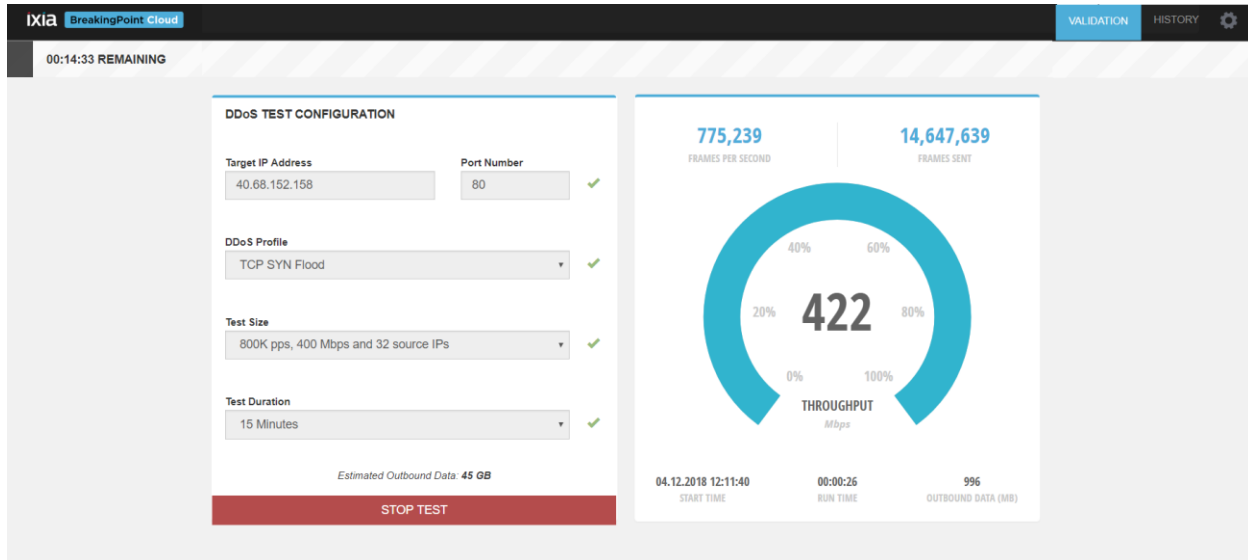
DDoS attacks are a big risk to any business with an online presence. Even a basic test of a DDoS attack can help you discover critical data, including how many packets your DDoS mitigation solution drops, how your mitigation solution functions in a real attack, how your mitigation solution reports DDoS events, what level of service you are able to provide while under attack, and how your people and process react to and withstand an attack. Here are several use cases for BreakingPoint Cloud:

- Validate Microsoft Azure DDoS protection service defenses for your Azure resources
- Produce evidence to document DDoS protection compliance
- Optimize your incident response process while under DDoS attack
- Assure protection service continuity with ongoing DDoS simulation testing
- Train your network security teams

PRODUCT CAPABILITIES

Ixia's BreakingPoint Cloud provides a safe and cost-effective way to validate DDoS cloud protection service activation, produce evidence to document DDoS compliance, optimize operational responses, and confirm service level agreements (SLAs) and controls.

Delivered as a SaaS solution, BreakingPoint Cloud eliminates common anxieties with deployment, especially where network architectures are more complex. It offers a modern, simplified web user interface with an “out-of-the-box” experience. Pre-defined templates for configuring DDoS test sizing and test duration enables additional safety features by eliminating the potential of configuration errors and keeping the DDoS simulation within safety thresholds for production cloud deployments. To eliminate misconfigurations of the target IP address, Ixia's BreakingPoint Cloud provides a real-time IP validation, confirming you can simulate DDoS tests only against resources on your Microsoft Azure cloud infrastructure.



BreakingPoint Cloud – DDoS Validation Dashboard

Hardening your network architecture and preparing for a DDoS attack mitigates damage and allows your organization to become more resilient, even under attack. But you also need to know that DDoS preparations and investments will work as planned, stop bad traffic, and allow good traffic to pass. Testing attack scenarios prior to deployment ensures that you are protected.

With BreakingPoint Cloud—Microsoft Azure DDoS protection validation, you'll gain the actionable intelligence needed to quickly and easily understand how your cloud DDoS protection works and to prove compliance of DDoS protection assurance.

SPECIFICATIONS

FEATURE CATEGORY	FEATURE
General Features	<ul style="list-style-type: none">• SaaS DDoS validation platform using safe botnet modeling• Validates DDoS protection service across all Microsoft Azure regions (see Microsoft Azure website for list of regions)• DDoS test traffic originates from public IPv4 addresses• Modern, easy to use, web-based user interface• Automation control with Python API• Built-in safety features to validate that the DDoS target IP address is owned by the Azure account that executes the DDoS validation

FEATURE CATEGORY	FEATURE
DDoS Patterns	<ul style="list-style-type: none">• TCP SYN Flood• DNS Flood• UDP Flood (64 bytes)• UDP Flood (128 bytes)• UDP Flood (256 bytes)• UDP Flood (512 bytes)• UDP Flood (1024 bytes)• UDP Flood (1500 bytes)• NTPv2 Flood• SSDP Flood• Memcached Flood
DDoS Test Size Profiles	<p>4 profiles to define scale based on selected DDoS pattern ranging from 50 Mbps to 2.4 Gbps</p> <p>Note: Larger tests can be coordinated by contacting Ixia's Professional Services team</p>
Test Duration Profiles	<ul style="list-style-type: none">• 10 minutes• 15 minutes• 20 minutes• 25 minutes• 30 minutes <p>Note: Longer tests can be coordinated by contacting Ixia's Professional Services team</p>
Availability	Available to customers with a billing address in United States of America (USA)

Ordering Information

The following new part numbers are released and available for purchase.

PART NO	DESCRIPTION
954-4076	Ixia KeyCoin Prepayment – One KeyCoin unit to be used as credit towards any Ixia/Keysight SaaS solutions which supports billing management through Ixia's https://store.ixiacom.com web portal (954-4076)
983-2000	BreakingPoint Cloud, DDoS Prepay Rate Plan <ul style="list-style-type: none">Deducts 2 KeyCoins per gigabyte of outbound traffic

Notes:

- Ixia KeyCoin Prepayments never expire and can be consumed by any Ixia SaaS product, including current and future solutions. Today's support allows KeyCoin consumption using Cloud Lens Public and BreakingPoint Cloud.
- The KeyCoins are deposited in a customer's cloud account – managed from the store.ixiacom.com web portal. Based on customer's actual usage, each Ixia SaaS solution deducts KeyCoins based on their individual rate plan.

MORE INFORMATION: WWW.IXIACOM.COM/PRODUCTS/BREAKINGPOINT-CLOUD

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