

## European Bank Increases DDoS Attack Management to Mirror Internet Traffic Surge Due to Global Pandemic

### The Situation

This European bank with over 6,500 employees works on international, national and local initiatives related to a range of responsibilities from state treasury services, banking and financial supervision, protection of banking and financial intermediary customers, banknote circulation, payment system services and economic analysis. The bank had implemented a number of AED's (Arbor Edge Defense) for threat management on their business networks, including employee VPN access. The AED devices protect locally until the Internet bandwidth is consumed and then automatically sends the higher levels of traffic to their ISP for mitigation.

### The Details

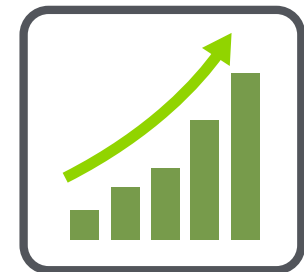
With the onset of the Coronavirus Pandemic, the organization experienced an uptick in inbound traffic to data centers by employees required to work from home and access the bank's business applications remotely using the Virtual Private Network (VPN). To control costs, ensure business continuity and manage potential DDoS attacks due to the amplified threat landscape, AED mitigation capacity needed to be upgraded to correspond with the expansion in Internet traffic.

With the help of the local NETSCOUT® resources and an embedded AED and its easy-to-use software licensing system, the bank decided to upgrade 2 of their AEDs from 5G to 10G.

### The Results

The increased DDoS management and mitigation capacity provides the organization and their employees confidence that they will be protected from DDoS attacks that can disrupt their business activity and even damage the organization's reputation while temporarily working from home. The organization was satisfied with the flexibility of the AED license configuration and the ability of NETSCOUT to execute on a global procurement effort quickly and to the organization's crisis timeline.

**CUSTOMERS REQUIRE FLEXIBLE LICENSING AND RAPID REACTION TIME**



**TO SCALE AND MEET CRISIS NETWORK TRAFFIC AND SECURITY NEEDS**

**Due to NETSCOUT's flexibility in licensing, global presence and ability to react swiftly, the customer was able to meet their crisis goals quickly and efficiently.**

## Intelligently Automated, Best Practice Hybrid DDoS Protection, Backed by Global Visibility and Threat Intelligence

The facts are clear – DDoS attacks continue to rise in size, frequency and complexity. Modern-day DDoS attacks are a dynamic combination of:

1. Volumetric
2. TCP State Exhaustion
3. Application-layer attack vectors

Industry-best practice for DDoS defense is a multi-layer, or hybrid approach that takes into account the different types and targets of DDoS attacks. Just as important, the solution must have an intelligent form of communication between these two layers backed by up-to-date threat intelligence to stop dynamic, multi-vector DDoS attacks.

### In-Cloud Protection

Arbor Cloud™ is an ISP agnostic, in-cloud, fully managed DDoS Protection service. Employing 14 scrubbing centers located throughout the US, Europe and Asia, Arbor Cloud provides over 11 Tbps of global mitigation capacity. Enterprises can seamlessly integrate their on-premise Arbor Edge Defense (AED) protection with Arbor Cloud to obtain comprehensive DDoS attack protection. Service Providers can also use Arbor Cloud for extra mitigation capacity and expertise.

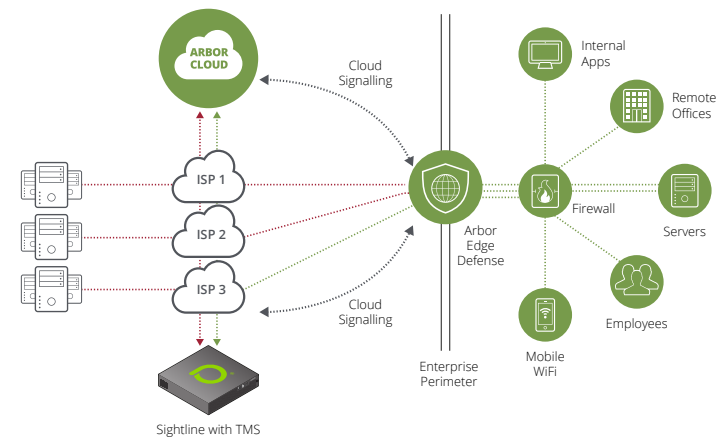
### On-Premise Protection

For larger networks and more experienced DDoS attack mitigation teams, Arbor Sightline and Arbor Threat Mitigation System (TMS) provide pervasive network visibility and DDoS attack detection. Upon attack detection, Arbor Sightline can automatically re-route attack traffic to the Arbor TMS for surgical mitigation of all types of DDoS attacks. For smaller networks, Arbor Edge Defense (AED) is an always-on, in-line, DDoS attack detection and mitigation solution which can stop inbound DDoS attacks. For larger DDoS attacks, AED's Cloud Signaling™ will intelligently link to Arbor Cloud.

### Global Visibility and Threat Intelligence

Arbor Security Engineering & Response Team (ASERT) leverages a 20-year, worldwide deployment of Arbor products and third-party intelligence – otherwise known as ATLAS® – to gain unmatched visibility into global threat activity. The global insight derived from ATLAS/ASERT continuously arms all Arbor products and services in the form of features, integrated workflows and the ATLAS Intelligence Feed (AIF).

Arbor Products	
<b>Arbor Cloud DDoS Protection Products and Services</b>	<ul style="list-style-type: none"> <li>• A fully managed, tightly integrated combination of in-cloud and on-premise DDoS protection.</li> <li>• 24/7 managed DDoS protection with 14 scrubbing centers around the world providing over 11 Tbps of mitigation capacity.</li> </ul>
<b>NETSCOUT Arbor Edge Defense</b>	<ul style="list-style-type: none"> <li>• Always-on, in-line, detection and mitigation of DDoS attacks ranging from sub 100 Mbps to 40 Gbps.</li> <li>• Can stop inbound and outbound DDoS attacks, malware, and C2 communication.</li> </ul>
<b>Arbor Sightline &amp; Threat Mitigation System (TMS)</b>	<ul style="list-style-type: none"> <li>• Arbor Sightline provides pervasive network visibility and DDoS attack detection.</li> <li>• Arbor TMS provides out-of-path, stateless, surgical mitigation at up to 400 Gbps per 2U device.</li> </ul>
<b>Arbor Sightline with Sentinel</b>	<ul style="list-style-type: none"> <li>• Intelligently optimize mitigation based on infrastructure capability to block attacks in the most efficient and scalable way.</li> <li>• Share attack data and request mitigation help from other networks.</li> <li>• Detailed reporting to see exactly what is being dropped, where, and why.</li> </ul>



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