

Cisco ASR 9000 vDDoS Protection Solution

Virtual, Network Embedded DDoS Protection
Powered by Arbor Networks

Key Features and Benefits

- Network embedded DDoS Protection
- 100% virtualized solution
- Powered by Arbor Networks



#1 in DDoS Solutions and Research



#1 in Network Infrastructure



Cisco ASR 9000 vDDoS Protection solution

Arbor Networks, the de facto leader in DDoS detection and mitigation, has partnered with Cisco Systems, the industry leading network infrastructure vendor to provide the most comprehensive DDoS attack protection solution on the market today.

Network Embedded DDoS Protection

The combination of the Arbor Networks® TMS with the Cisco ASR 9000 Router has created the Cisco ASR 9000 vDDoS Protection solution. This is the most comprehensive DDoS protection solution for your network edge and leverages the most effective campaign-level threat intelligence feed for DDoS and related attacks to maintain the availability of your network connectivity. Armed with Arbor's ATLAS® Global Threat Intelligence, detect DDoS attacks in as little as 1 second and block malicious traffic at the ASR 9000 router ingress ports to protect your organization against DDoS and other threats.

100% Virtualized Solution

Increase the ROI of your existing Cisco Aggregation Services Router (ASR) 9000 router deployment by embedding a virtual version of TMS in its Virtualized Services Module (VSM). Cisco vDDoS Protection allows you to protect your organization from DDoS attacks while taking advantage of the benefits of virtualization such as use of less rack space, power, cooling, cabling, ports and import taxes on hardware for your international locations.

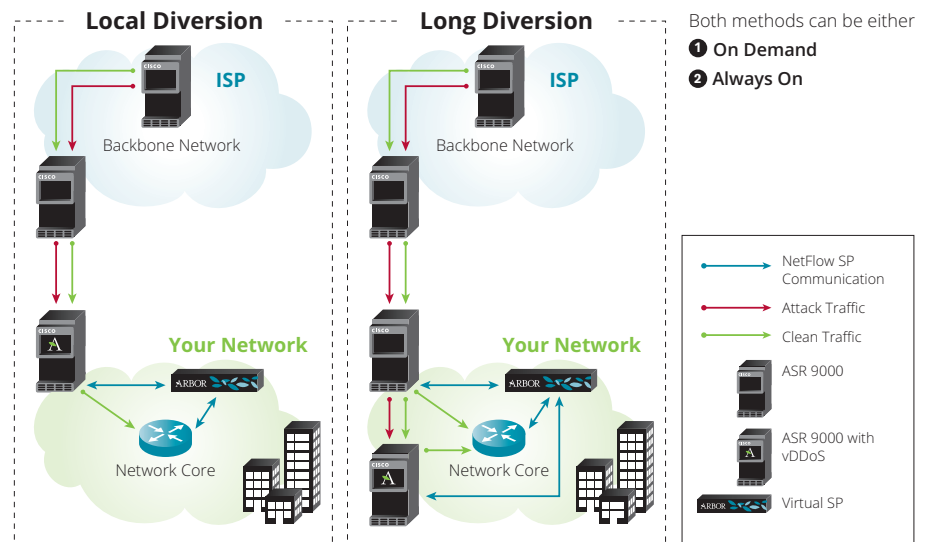


Figure 1 Deployment methods for Cisco vDDoS Protection Solution



The Security Division of NETSCOUT



The Cisco ASR 9000 Series Aggregation Services Routers (ASR 9000)



The Cisco ASR 9000 Series Virtualized Services Module (VSM)



The Security Division of NETSCOUT

Corporate Headquarters

76 Blanchard Road
 Burlington, MA 01803 USA
 Toll Free USA +1 866 212 7267
 T +1 781 362 4300

North America Sales

Toll Free +1 855 773 9200

Europe

T +44 207 127 8147

Asia Pacific

T +65 68096226

www.arbornetworks.com

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Surgically block DDoS attacks without disrupting normal business traffic while protecting critical stateful network defenses (e.g. Firewalls (FW), Intrusion Prevention Systems (IPS), Web Application Firewalls (WAF)) and network devices (load balancers, DNS, Email, etc.). The ASR 9000 vDDoS Protection scales from 10 Gbps to Tbps of protection and can leverage Arbor cloud for offloading DDoS attacks as needed. Arbor's SP workflows can automate the detection and mitigation of DDoS attacks and simplify the process of managing your DDoS defense.

The Cisco ASR 9000 vDDoS Protection Solution is continuously armed with the global, actionable, threat intelligence provided by Arbor's ATLAS. You can rely upon Arbor's proven and trusted 15 year history to protect your organization from modern day DDoS attacks and other threats.

Cisco ASR 9000 vDDoS Protection Solution

Powered by embedded virtual TMS

Throughput	<ul style="list-style-type: none"> • Up to 40 Gbps, 27 Mpps • Up to 20 Gbps, 27 Mpps • Up to 10 Gbps, 27 Mpps
Mitigation	Up to router port capabilities
Supported Routers	Cisco ASR 9000 Routers: 9006, 9010, 9912, 9922
Requisite Components	<ul style="list-style-type: none"> • DDoS Attack Detection/Mitigation: TMS (version 7.01+) • Router: Cisco ASR 9000 Router (IOS-XR release 5.3.0+) • Virtual Platform: Cisco Virtualized Services Module for the ASR 9000 • DDoS Protection: Cisco ASR 9000 vDDoS Protection Solution
Router Slots	1 router slot per VSM, multiple VSMS per router

For more information on Cisco ASR 9000 vDDoS Protection visit:

www.arbornetworks.com/asr9000

For more information on the ASR 9000 visit:

www.cisco.com/go/asr9000

About Arbor Networks

Arbor Networks, the cyber security division of NETSCOUT, helps secure the world's largest enterprise and service provider networks from DDoS attacks and advanced threats. Arbor is the world's leading provider of DDoS protection in the enterprise, carrier and mobile market segments, according to Infonetics Research. Arbor's advanced threat solutions deliver complete network visibility through a combination of packet capture and NetFlow technology, enabling the rapid detection and mitigation of malware and malicious insiders. Arbor also delivers market-leading analytics for dynamic incident response, historical analysis, visualization and forensics. Arbor strives to be a "force multiplier," making network and security teams the experts. Our goal is to provide a richer picture into networks and more security context so customers can solve problems faster and reduce the risks to their business. To learn more about Arbor products and services, please visit our website at arbornetworks.com. Arbor's research, analysis and insight, together with data from the ATLAS global threat intelligence system, can be found at the ATLAS Threat Portal.