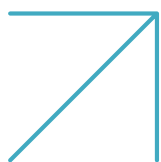


DDoS Scrubbing Centers – High Availability and Resilience



Radware's scrubbing centers provide cloud-based security solutions for DDoS mitigation on enterprise networks. They deliver best-in-class infrastructure security and integrity, strict standards, true multitenant service, and high resiliency and scalability. An overview of Radware's scrubbing centers' high availability and resilient architecture follows.

High Availability



Systems

All scrubbing centers are designed in full resilience mesh topology and are based on N+1 redundancy on all of their networking (routers, switches and load balancers) and mitigation elements. They are equipped with dual redundant power supplies on all applicable equipment to assist with maximum uptime. This topology allows for steady and uninterrupted operation of the scrubbing centers during maintenance and/or element failures.



Connectivity

Radware's scrubbing centers are connected to the internet through multiple Tier 1 (upstream) providers and links.

This configuration enables high capacity, flexibility in customer diversion methods and high availability at all times.

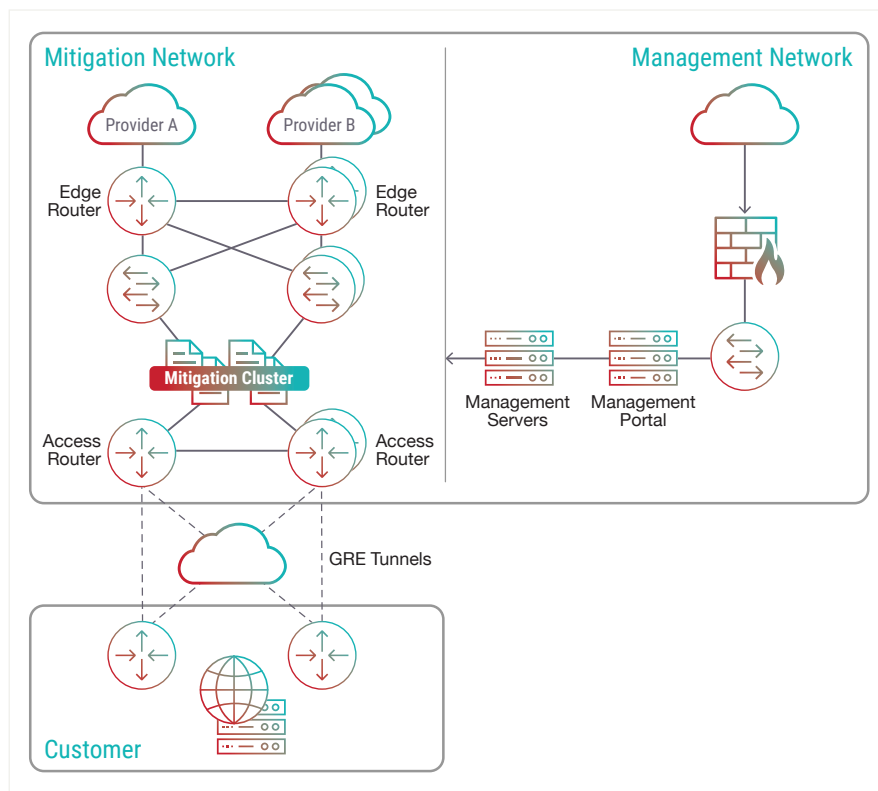


Management and Security

Everyday operation of the scrubbing centers is controlled by management and monitoring systems, allowing continuous monitoring of all components, subcomponents, and internal/external and front-end/back-end applications to assist the infrastructure and service integrity.

The management network is dedicated and separated from the mitigation network. All management servers are installed on dedicated physical or virtual servers, protected by leading firewall and network security systems.

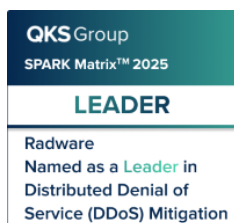
Figure 1:
Radware's
Scrubbing
Centers



Scaling and Disaster Recovery

Radware's DDoS scrubbing center network is designed and built from multiple scrubbing centers located in data centers around the world.

Scrubbing centers are backed up automatically via proper procedures and policies, and individual centers can be replaced by one of the other centers for scaling up or disaster relief. All scrubbing centers are interconnected with a VPN, and control can be transferred from one scrubbing center to another using the control center software.



Scrubbing Center Locations

DDoS Mitigation
Scrubbing Center



| Region | Location | Hosting DC |
|---------------|-----------------------------|----------------|
| North America | Ashburn, VA, USA | Equinix |
| North America | Dallas, TX, USA | Equinix |
| North America | San Jose, CA, USA | Equinix |
| North America | Toronto, Canada | Realty Digital |
| Latin America | Bogota, Colombia | Equinix |
| Latin America | Sao Paulo, Brazil | Equinix |
| Latin America | Lima, Peru | Cirion |
| EMEA | Dubai, United Arab Emirates | Equinix |
| EMEA | Paris, France | Interxion |
| EMEA | Tel Aviv, Israel X2 | Binat Internet |
| EMEA | Johannesburg, South Africa | Teraco |
| EMEA | London, United Kingdom | Equinix |
| EMEA | Frankfurt, Germany | Interxion |
| EMEA | Amsterdam, Netherlands | Equinix |
| APJ | Melbourne, Australia | Equinix |
| APJ | Hong Kong, Hong Kong | iAdvantage |
| APJ | Seoul, South Korea | Hostway |
| APJ | Tokyo, Japan | Equinix |
| APJ | Chennai, India | Airtel |
| APJ | Mumbai, India | Yotta |
| APJ | Taipei, Taiwan | Chief |
| APJ | Sydney, Australia | Equinix |
| APJ | Auckland, New Zealand | Spark |
| APJ | Singapore, Southeast Asia | Equinix |

Radware's Cloud Security Services are fully compliant with all the requirements of the following security-related standards:

- **PCI DSS v4.1** (Payment Card Industry Data Security Standard)
- **HIPAA** (Health Insurance Portability and Accountability Act of 1996)
- **ISO 27001:2013** (Information Security Management Systems)
- **ISO 27017:2015** (Information Security for Cloud Services)
- **ISO 27018:2014** (Information Security Protection of Personally Identifiable Information [PII] in Public Clouds)
- **ISO 27032:2023** (Security Techniques — Guidelines for Cybersecurity)
- **ISO 27701** (Privacy Management System Standard)
- **ISO 28000:2007** (Specification for Security Management Systems for the Supply Chain)

In addition, Radware's data centers worldwide are certified with all the requirements of the following quality-related standards:

- **US SSAE16 SOC-1** Type II
- **US SSAE16 SOC-2** Type II
- **ISO 9001:2008** (Quality Management System)
- **ISO 14001:2004** (Environment Management System)
- **ISO 22301:2012** (Business Continuity Management Systems)
- **ISO 50001:2011** (Energy Management Systems)
- **OHSAS 18001:2007** (Occupational Health & Safety)

All of Radware's scrubbing centers are hosted on industry-leading data centers with high standards and procedures.

Radware's data centers have at least 99.999% availability SLAs on power. Every mission-critical device has at least one backup power feed fed by UPS along with a generator backup.

Physical access to the data center buildings, data floors and individual areas is monitored 24x7. Standardized procedures also ensure that only selected staff members have access to equipment whenever required.

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