

**SOLUTION BRIEF**

# Fortinet and RedSeal Security Solution

Integrated solution enhances attack surface visibility by integrating network context, connectivity, and exposure information into a comprehensive view of your security posture

## Executive Summary

Fortinet and RedSeal have partnered to deliver an industry-leading security solution by integrating Fortinet FortiOS and FortiManager with RedSeal to provide customers with network visualization, attack path analysis, risk prioritization, and continuous compliance.

## The Challenge

Large, complex networks require implementing and managing thousands of access rules across your infrastructure. Determining the devices and rules responsible for unintended access can often be challenging. Unintended and accidental exposure that contains vulnerabilities can leave organizations open to attack and allow an intruder to gain access to critical data systems.

## Joint Solution

The RedSeal integration with the Fortinet FortiGate NGFW ensures uniform visibility, defense, and ongoing management of an organization's firewall and network device infrastructure. The combination of Fortinet FortiGate NGFW and RedSeal allows end-users to visualize their hybrid network topology, validate end-to-end access routes, import vulnerability scan data to prioritize remediation efforts, and continuously monitor and track changes to ensure ongoing compliance.

RedSeal leverages the configuration, policy, and network information from Fortinet FortiGate NGFW and other devices to give the organization a holistic view of the entire network across an on-prem, virtual, and cloud environment. RedSeal calculates your RedSeal Digital Resilience Score (DRS), modeled after a creditworthiness score, so you'll have one metric to help manage and improve your network's resilience. RedSeal's understanding of your network enables you to verify compliance with internal policies and external regulations and accurately prioritize your risks and vulnerabilities. Knowing your network and its detailed access paths will also accelerate your incident response. Together, Fortinet FortiGate and RedSeal allow you to visualize your network topology, validate end-to-end access routes, import vulnerability scan data to prioritize remediation efforts, and continuously monitor and track changes to ensure ongoing compliance.

## Solution Components

- Fortinet FortiGate Next-Generation Firewall (NGFW)
- Fortinet Secure SD-WAN
- Fortinet FortiManager
- Fortinet FortiSwitch
- RedSeal Platform

## Solution Benefits

- Identify gaps in inventory with end-to-end hybrid network visibility, including hosts.
- Dynamically model access to the critical assets, on premises, and in the cloud.
- Predictive threat modeling and metrics maximize efficiency.
- Access policy configuration drift and impact assessments.
- Automate exposure-based remediation prioritization.
- Unparalleled security protection with the Fortinet Security Fabric.



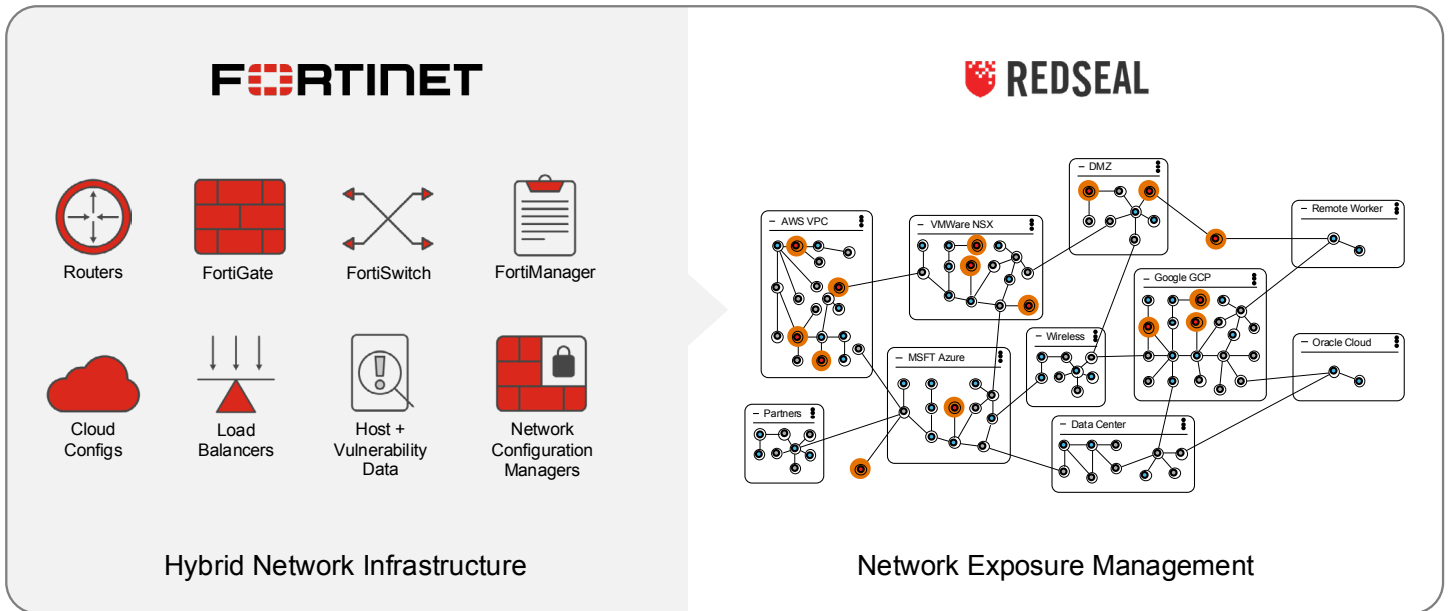


Figure 1: RedSeal ingests all network data to model your IT/OT/IoT environments.

## Solution Components

**RedSeal** is a proactive network exposure management solution that continuously monitors the predefined access paths within cloud, corporate, and government network environments to assess security and compliance risks. It gathers the configuration of all cloud and on-premises infrastructure devices, including gateways, firewalls, routers, and load balancers, to build a virtual model of an enterprise network by analyzing how the rules on these devices work together to protect critical assets. RedSeal can also validate access configurations against governmental and industry-driven compliance regulations and internally defined security policies.

**FortiManager** provides automation-driven centralized management of your Fortinet devices from a single console. It enables full administration and visibility of your network devices through streamlined provisioning and innovative automation tools. This integration includes the management of FortiSwitch and FortiGate NGFW with Secure SD-WAN.

**FortiGate NGFW with Secure SD-WAN:** FortiGate NGFWs utilize purpose-built security processors and threat intelligence from FortiGuard Labs AI-Powered Security Services to deliver top-rated protection and high-performance inspection of clear-textured and encrypted traffic. NGFWs reduce cost and complexity with complete visibility into applications, users, and networks and provide best-of-breed security.

**FortiSwitch:** FortiSwitch managed network Ethernet switches intuitively and automatically adjust to ensure peak performance within your network. Ethernet switching from Fortinet works directly with FortiGate to create a secure, simple-to-manage architecture with a single point of management and configuration.



## Use Cases

### Use Case 1: Networkwide Validation of Firewall Security Policies

#### Challenge

Validating access policies regarding end-to-end network access within an enterprise network is not trivial.

#### Solution

Enterprises deploying Fortinet FortiGate can now leverage RedSeal to visualize access and validate policies at the application Layer 7 and networking Layers 2, 3, and 4 across on-premises and cloud deployments. RedSeal's network modeling and exposure management platform can now validate these policies that use application visibility. With this level of visibility within and between their hybrid network environments (physical assets, private and public cloud), teams can understand and prioritize incidents and vulnerabilities wherever they are.

### Use Case 2: Government and Industry-Driven Compliance Standards

#### Challenge

It is difficult for organizations to build and maintain a security profile in line with industry best practices across their cloud and on-premises infrastructures. They need to eliminate configuration settings known to be insecure, protect the organization from known threats, and offload unnecessary cyber risk by narrowing the attack surface to only what is necessary.

#### Solution

RedSeal validates customers' Fortinet FortiGate configurations against governmental and industry-driven compliance regulations, such as STIG and CIS, as well as internally defined security policies. RedSeal offers the following modules:

- STIG Module for Fortinet FortiGate
- CIS Benchmarks for Fortinet FortiGate

## About RedSeal

RedSeal, a pioneer in cybersecurity and network exposure management, delivers proactive, actionable insights to close defensive gaps across hybrid environments. RedSeal continually discovers all resources, connectivity, and exposures, creating a single, comprehensive model—a network digital twin. This enables unparalleled analysis and simplified protection of the entire cyber terrain. Trusted by hundreds of Fortune 1000 companies and more than 75 government agencies, including five branches of the U.S. military, RedSeal improves operational efficiency, boosts staff productivity, and reduces business risk. Visit [www.redseal.net](http://www.redseal.net) to learn more.



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