



# Automated Cloud Server Firewall Management

for Hosted, VPS, Dedicated and Cloud Servers, and AWS EC2

Security is the number one inhibitor to hosted and cloud service adoption. And the first line of defense - the host firewall - is also the most vulnerable. That's because cloud servers operate outside the corporate perimeter and users are forced to leave administrative ports like SSH and RDP open so they can connect to and manage their machines, leaving only a username and password for a hacker to defeat.

## Centrally manage your cloud server firewalls across all clouds

With Dome9, cloud customers can self-manage the new security perimeter: hosted and cloud server's built-in OS firewall, and/or the virtualization layer VLAN firewall (if available) and close all administrative server ports, by default, opening them securely, on-demand.

Simplify	Secure	Manage
<ul style="list-style-type: none"> <li>Stop manually configuring Linux iptables and Windows firewall</li> <li>Help your admins and cloud users understand the risks</li> <li>Eliminate manual server log management and instead Log Your Cloud™ automatically</li> </ul>	<ul style="list-style-type: none"> <li>Close all administrative ports on your cloud servers, by default</li> <li>Enable on-demand, secure access with just one click</li> <li>Make your cloud servers virtually invisible to hackers</li> </ul>	<ul style="list-style-type: none"> <li>Centrally manage your firewalls across all your servers and clouds</li> <li>Get visibility and reporting to see who's accessing your servers, when, and how</li> <li>Demonstrate compliance for your cloud infrastructure</li> <li>Unify security no matter the technology or device</li> </ul>

Dome9 automates cloud firewall management to ensure ports are opened only when, by whom, and for as long as you intend. Its rich auditing and multi-tiered administration provide full visibility and control for all your users, servers, and clouds.

The screenshot displays the Dome9 Central Access Management dashboard. At the top, it says 'Welcome demo@dom9.com' and has 'Log Off' and 'Settings' links. Below the navigation tabs (Access, Audit, Manage), there are two main sections:

- Active Access Leases:** A table showing an active SSH session.
 

Service	Expires in	Scope	User	
SSH (22)	60 min.	108.72.4.150	Vexxhost Cloud demo@dom9.com	Terminate Access
- Get Access:** A list of services with 'Get Access' buttons and 'Send Invitation' links.
 

Service	Port	Protocol	Action
Wordpress Server	21	FTP	Get Access - Send Invitation
Vexxhost Cloud	22	SSH	Get Access - Send Invitation
WebServers	80	Web server	Get Access - Send Invitation
Databases	3306	MySQL	Get Access - Send Invitation
default			Get Access - Send Invitation

**Dome9 Central Access Management:**  
1-click secure access to any cloud machine

## Dome9 Lets You

- REMOTELY MANAGE hosted and cloud firewall security policy for all your servers and clouds
- Define ON-DEMAND ACCESS for any number of services (SSH/RDP/etc.), anytime, and from anywhere.
- Send auto-expiring SECURE ACCESS LEASE INVITATIONS to third parties.
- Ensure ports aren't left open with AUTOMATED POLICY MANAGEMENT

## Key Features

### Secure Access Leasing

Close all administrative ports by default with the ability to securely enable on-demand access for a specific user, time period, and purpose. Using Dome9 Central, Dome9's web-based management console, you don't simply open the port; instead, you issue a secure access lease - a one-time, limited access authorization assigned to the user and that expires after a specified period of time. When the Secure Access Lease™ expires, the port is closed automatically, and your server is secured.

The screenshot displays the Dome9 Central interface for managing a server named 'Vexxhost Cloud'. The left sidebar shows a navigation menu with options like 'Servers', 'AWS Security Groups', and 'Users'. The main content area is titled 'Server - Vexxhost Cloud' and includes an 'Agent Status' section with a green checkmark indicating the agent is 'Accessible'. Below this is a 'Services' table with columns for Port, Name, and State. The table lists services like Web server (port 80, Always Open), SSH (port 22, On Demand), MySQL (port 3306, On Demand), and FTP (port 21, On Demand). There are 'Edit' and 'Delete' links for each service. At the bottom, there is a 'Delete This Server' warning section.

Port	Name	State	
80	Web server	Always Open	Edit Delete
22	SSH	On Demand	Edit Delete
3306	MySQL	On Demand	Edit Delete
21	FTP	On Demand	Edit Delete

*Dome9 Central Firewall Management: Configure any service to be on-demand via a secure access lease*

**“73% of IT professionals believe the cloud server firewall is the first place to stop attacks and prevent exploits.”**

- Cloud Security: Managing Firewall Risks, Ponemon Institute, Nov. 2011

### Secure Access Lease™ Invitations

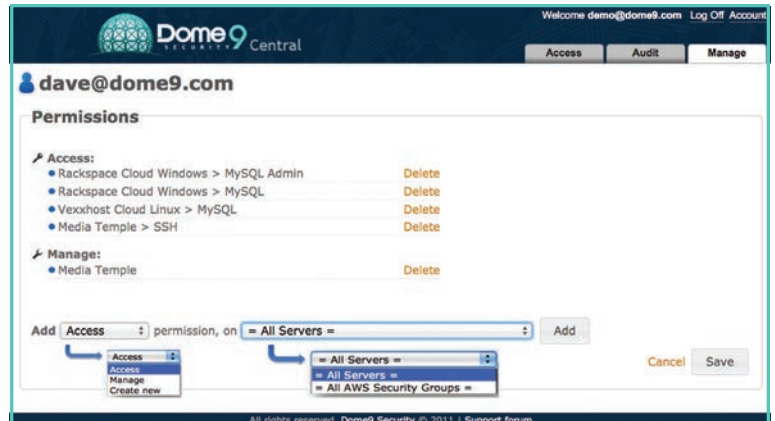
Offer users and third parties secure access with time- and location limited lease invitations, providing one-time access passes via a specific port on a cloud server.

The screenshot shows the 'Create an invitation' form in the Dome9 Central console. It is for creating an invitation for 'SSH @ Vexxhost Cloud'. The form includes fields for 'Invitation Name' (Example invitation), 'Expiration period' (1 hour, 1 day, 1 week), and 'Maximum access time' (1 hour, 6 hours, 24 hours). Below this is a 'Send invitation by email' section with buttons for 'Send someone', 'Send myself', and 'Link only'. It prompts the user to enter an invitee email address (Developer@acme.com) and a personal message (optional) which is pre-filled with a sample invitation text.

*Dome9 Central Invitations: Send third-parties secure access lease invitations*

## Multi-tiered Administration

Grant administrative control to delegated administrators over only the resources necessary for their functional task. Multi-tiered administration provides quick, segregated access to an individual or group of servers (e.g., the Web servers for the Web development team, the database servers for the database team, etc.). Authorize each user to self-grant secure access to their servers, and use your super-administrator capabilities to manage security policy for your entire cloud.



*Dome9 Central User Administration: Manage who can access and manage policy for cloud servers*

*Make your security as elastic as your cloud*

## Account Activity Auditing

Log activity centrally across all your servers and clouds to monitor and report on who's accessing what servers, when, from where, and how. Demonstrate compliance and control with detailed logs that report changes to policies by any account holder, and access by any third-party consultant or developer. Stop manually searching and compiling logs from each cloud server. Dome9 shows you, at-a-glance, who's accessing and modifying policy centrally, through one pane of glass. What's more, because the logs are stored within Dome9 Central (and not on the server), they're available continually even after your servers are removed from service.

## Flexible, API and Agent-based Security

Choose the deployment method that best suits your needs, with either the Dome9 Agent or Dome9 Connect API. The Dome9 Connect API connects to AWS EC2 and clouds running OpenStack Software to provide instant-on service. Alternatively, the Dome9 Agent can be installed at any time, or preinstalled as part of a server image template to provide cloud firewall management, as well as policy portability. If, for example, you move a virtual machine from one cloud to another, because the agent is deployed directly on the machine the policy goes with it, ensuring your server is continually secured and seamlessly managed.



*Dome9 Central Add a Server: Leverage either an agent or API to secure your cloud*

## Centralized Firewall Management

Dome9 unifies management of all your private, hybrid, and public cloud servers. From one console, you can centrally manage firewall configurations for all server types, across all dedicated, hosted, and cloud infrastructures. Centralized management enables mixed cloud deployments and simplifies the migration of servers from one cloud provider to another. For example, you might use AWS for development and testing, and another cloud provider for production environments, yet with Dome9 you can centrally manage your servers' security no matter which environment it's running in.

## Cloud-friendly Billing

Enjoy metered, pay-as-you-go billing, paying only for what you use. Dome9 records the number of hours of use and bills accordingly at the end of each month. This lets you pay for the protection you use with a security and billing model that's as elastic as your cloud infrastructure. Dome9 is free for personal use with commercial plans available for enterprise and service providers.

*“If you're trying to get a grip on your distributed firewall management problem, especially if you're a big user of AWS, check out Dome9.”*

- Chris Hoff, RationalSurvivability.com

## Dome9 Architecture

The heart of the system, Dome9 Central, orchestrates access to the cloud infrastructure, allowing full control and protection of the environment. The lightweight yet powerful Dome9 Agent works for virtual machines in private or public clouds, and for dedicated servers. Dome9 Connect, its API-based integration module for cloud providers, is used to manage Amazon's Web Services EC2 & VPC Security Groups, without deploying agent or complex daemons.

## Supporter Platforms

### Dome9 Agent Complete OS Support

Windows 2003, 2008 & 2008 R2

Linux CentOS/RHEL, Ubuntu, Debian and Fedora

### Full Virtualization Compatibility

### API “Agent-less” Support

Amazon Web Services EC2 & VPC

VMware vCloud

OpenStack & Open vSwitch

## About Dome9 Security

Dome9 makes security as elastic as the cloud with first-of-its-kind automated cloud firewall management service. Available for the enterprise and hosting providers, Dome9 provides dynamic security policy control for Clouds, Virtual Private Servers (VPS), dedicated servers, and Amazon's EC2 Security Groups, across all major operating systems and service providers.

Dome9 is headquartered in Tel Aviv, Israel, with offices in Menlo Park.