

Gigabit Performance.

This embedded appliance delivers gigabit performance yet doesn't make a sound. The specially designed cooling profile allows for cool operation even when stressed to the max.



3.300Mbps Throughput 250.000 Packets per Second



327Mbps Inline High Speed Intrusion Prevention & SSL Finger Printing



Fast Filtering 35.000 connections P/S Low Latency ~1.6mS (with CoDel & Traffic Shaper)



Hardware Assisted Encryption 600Mbps IPsec (AES256GCM16)



Guard Web Access Filtering (SSL) Proxy Captive Portal with Voucher support



Up to 356Gb SSD Offering Sufficient Space for Logging & Reporting



System wide two-factor authentication.
Compatible with Google Authenticator.



Bundled with a free year OPNsense® Business Edition

- √ Commercial firmware repository
- √ Free GeoIP database
- √ Official OPNsense Open Virtualization Image
- √ Free professional plugins (OPNcentral, Proxy Access)

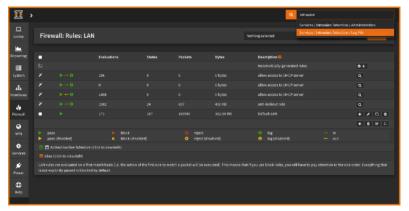
√ Free E-Book (English & German)





SOFTWARE

VERSATILE - OPEN SOURCE - FULLY FEATURED



OPNsense® Secure Your Network With Ease™

OPNsense is Deciso's fast growing open source firewall and security platform released under an Open Source Initiative approved license. Its rich feature set is combined with the benefits of open and verifiable sources.

All features can be used from within the easy to use graphical interface, equipped with a build-in search feature for quick navigation. Protecting your network has never been this easy with features such as; the integrated intrusion prevention system and two-factor authentication for safely connecting mobile users.



Businesses

Protect your business network and secure your connections.

From the stateful inspection firewall to the inline intrusion detection & prevention system everything is included for free. Use the traffic shaper to enhance network performance.



Schools

Limit and share available bandwidth evenly amongst students and utilize the category based web filtering to filter unwanted traffic such as adult content and malicious websites. It is easy to setup as no additional plugins nor packages are required.



Hotels

OPNsense offers a captive portal to control guest internet access for a limited duration. Vouchers can easily be created via the graphical user interface.



On the road

Even on the road OPNsense is a great asset to your business as it offers OpenVPN and IPSec VPN solution with road warrior support and two-factor authentication. The easy client exporter make configuring your OpenVPN SSL client setup a breeze.



Remote Offices / Branches & SOHO

The integrated site to site VPN (IPsec or SSL VPN) can be used to create a secure network connection to and from your remote offices. Enjoy the easy configuration and online searchable documentation with simple how-to type of articles to get you started, quickly. Pluggable support is offered for ZeroTier, Tinc as well as Wireguard.



SOFTWARE

FEATURE OVERVIEW

(For updated information on current release see $\underline{\textbf{docs.opnsense.org}})$

Stateful firewall

- Filter by
 - · Source
- Destination
- Protocol
- Port
- · OS (OSFP)
- Limit simultaneous connections on a per rule base
- Log matching traffic on a per rule bases
- Policy Based Routing
- Packet Normalisation
- Option to disable filter for pure router mode

Policy organization

- Alias Support
 - · IP addresses
 - · Port ranges
 - · Domain names (FQDN)
- Interface Groups
- · Create security zones with equal rules
- Rule Category
- · Easy access rule sets

Granular control state table

- Adjustable state table size
- On a per rule bases
- · Limit simultaneous client connection
- · Limit states per host
- · Limit new connections per second
- · Define state timeout
- · Define state type
- State types
- Keep
- Sloppy
- Modulate Synproxy
- None
- Optimisation options
- Normal
- · High latency
- · Agressive
- Conservative

Authentication

- External Servers
- LDAP
- Radius
- Integrated Servers
- Local User Manager
- · Vouchers / Tickets
- · FreeRadius (Plugin)

Authorization

- User Interface
- · Local User Manager

Accounting

- FreeRadius (Plugin & External)
- Vouchers / Tickets

2-Factor Authentication

- Supports TOTP
- Google Authenticator
- Supported services:
- · Captive Portal
- Proxy • VPN

- · SSH / Console

Certificates

- Certificate Authority
- · Create or Import CA's
- · Create or Import Certificates
- Let's Encrypt (Plugin)
 - · Automated (Trusted) CA

802.1Q VLAN support

max 4096 VLAN's

Link Aggregation & Failover

- Failover
- Load Balance
- Round Robin
- Cisco Ether Channel (FEC)
- 802.3ad LACP

Other Interface types

- Bridged interfaces
- Generic Tunnel Interface (GIF)
- Generic Routing Encapsulation

Network Address Translation

- Port forwarding
- Outbound NAT
- NAT Reflection

Traffic Shaping

- Limit bandwidth
- Share bandwidth
- Prioritize traffic
- Rule based matching
 - Protocol
 - · Source
- Destination
- Port
- · Direction

IGMP Proxy

For multicast routing

Universal Plug & Play

Fully supported

Dynamic DNS

- Selectable form a list
- Custom
- RFC 2136 support

DNS Forwarder

- Host Overrides
- Domain Overrides

DNS Server

- Host Overrides
- A records
- · MX records Access Lists

DNS Filter

Supports OpenDNS

DHCP Server

- Relay Support
- BOOTP options

Multi WAN

- Load balancing
- Failover
- Aliases

Load Balancer

 Balance incoming traffic over multiple servers

Network Time Server

- Hardware devices
 - · GPS
- · Pulse Per Second

Intrusion Detection & Prevention

Inline Prevention

- Integrated rulesets
- SSL Blacklists
- · Feodo Tracker
- · Emerging Threats ETOpen
- SSL Fingerprinting
- Auto rule update using configurable cron

Captive Portal

- Typical Applications
- Guest Network
- · Bring Your Own Device (BYOD)
- · Hotel & Camping Wifi Access
- Template Management
- · Multiple Zones
- Authenticators
- All available authenticators
- · None (Splash Screen Only)
- Voucher Manager
- · Multiple Voucher Databases
- · Export vouchers to CSV
- Timeouts & Welcome Back
- Bandwidth Management
- · Use Traffic Shaper
- Portal bypass
- MAC and IP whitelisting
- Real Time Reporting
 - · Live top IP bandwidth usage
 - · Active Sessions
- · Time left

Rest API Virtual Private Networks

- IPsec
- · Site to Site
- Road Warrior WireGuard (Plugin)
- Site to Site
- Road Warrior OpenVPN
 - · Site to Site
 - · Road Warrior · Easy client configuration
- exporter
- Tinc (Plugin)
- · Full mesh routing
- ZeroTier (Plugin)

· VPN, SDN & SD-WAN

- **High Availability**
- Automatic hardware failover
- Synchronized state table

Configuration synchronisation

- **Caching Proxy**
- Multi interface
- Transparent Mode
- Support SSL Bump
- SSL Domain only (easy filtering)
- Access Control Lists
- Blacklists Category Based Web-filter
- Traffic Management Auto sync for remote blacklists

ICAP (supports virus scan engine)

Virus scanning (via plugins) External engine support (ICAP)

Online Identity Protection

- OlamAV (Plugin / C-ICAP) **Reverse Proxy**
- HAProxy Load balancer (Plugin)

Tor - Anonymity online (Plugin) **Backup & Restore**

History & Diff support

- File Backup
- Cloud Backup
- Git Backup

SNMP

Monitor & Traps

Diagnostics

- Filter reload status
- Firewall Info (pfInfo)
- Top Users (pfTop)
- Firewall Tables
- Aliases Bogons
- Current Open Sockets
- Show All States
- State Reset State Summary
- Wake on LAN
- ARP Table DNS Lookup
- NDP Table
- Ping Packet Capture
- Test Port

Trace route

- Monitoring
- Zabbix Agent (Plugin)
- Monit (Plugin)

· Proactive System Monitoring **Enhanced Reporting**

- Network Flow Analyzer 'Insight'
 - · Fully Integrated
 - · Detailed Aggregation · Graphical Representation
- · Clickable and Searchable
- CVS Exporter System Health
- · Round Robin Data · Selection & Zoom
- Exportable Traffic Graph
- · Live Traffic Monitoring **Network Monitoring**

Netflow Exporter

- Version 5 & version 9 · Local for 'Insight'
- **Firmware**
- Support Virtual Installs VMware tools (Plugin)
- · Xen Guest Utilities (Plugin) Easy Upgrade Reboot warning for base
- upgrades SSL Flavour selectable
- OpenSSL LibreSSL
- Selectable Package Mirror
- Reinstall Single Package Lock Package (prevents upgrade) Audit Feature

Check installed packages for known security vulnerabilities

Plugin Support **REST API** ACL support

Online Documentation ● Free & Searchable



Personal Information OPN sense® OPN sense OPN sense® OPN sense® OPN sense® OPN sense® OPN sense OPN s			
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1	Hardware Specifications		
Console Port 1 1 Internal Storage 16GB Solid State Flash 256GB Solid State Flash Memory 4GB DDR3 8GB DDR3 CPUC Orcs 4 (1.6Ghz) (1.6Ghz) Virtual Interfaces (802.1q VLANS)1 4093 4093 System Performance Firewall Prot Updaybut 3300Mbps 3300Mpbs Firewall Pox to Port Throughput 941Mbps 941Mbps Firewall Port to Port Packets Per Second 78Kpps 78Kpps Concurrent Sessions 3000000 7000000 Firewall Port (average) 200us 200us Firewall Policies (Recommended Maximum)1 10000 10000 Pecc VPN Throughput (AES256GCM16) 600Mbps 600Mbps Height A Wildth X Length (mm) 27 x 200 x 146 27 x 200 x 146 Height X Wildth X Length (mm) 27 x 200 x 146 27 x 200 x 146 Height X Wildth X Length (inches) 1.07 x 7.87 x 5.75 1.07 x 7.87 x 5.75 Form Factor Desktop (optional Walimount) Desktop (optional Walimount) Desktop (optional Walimount) Wolght (applianc	GbE RJ45 Ports [10/100/1000Mbps]	4	4
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	Memory	4GB DDR3	8GB DDR3
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Regulatory Compliance	Storage Temperature	-20 to +70°C	-20 to +70°C
	Humidity	10-90% non-condensing	10-90% non-condensing
FCC part 15 Class A CF Rohs FCC part 15 Class A CF Rohs	Regulatory Compliance		
. 35 part 15 States 1, 5 Eq. (1616)		FCC part 15 Class A, CE, Rohs	FCC part 15 Class A, CE, Rohs

¹ The user interface is designed for normal business usage, large rulesets, high number of users or interface assignments may be less practical.

Total Firewall Throughput is calculated based on system utilization and actual measured port-to-port performance (if both numbers are the same no measurement of system utilization was recorded and maximum theoretical throughput is likely to be higher). Maximum PPS is measured using IMIX. All throughput numbers are based upon maximum packets per second multiplied by standard 1514byte frame size minus additional overhead where applicable. IPsec traffic is measured using AES256GCM16 via a routed tunnel.Latency is measured as an average over 60 seconds with system at 80% of maximum load and 256byte UDP packages. IPS performance is measured using a EMIX simulation. Concurrent sessions are based upon memory available, where one state consumes 1KB of memory and 1GB of memory is reserved for system tasks.