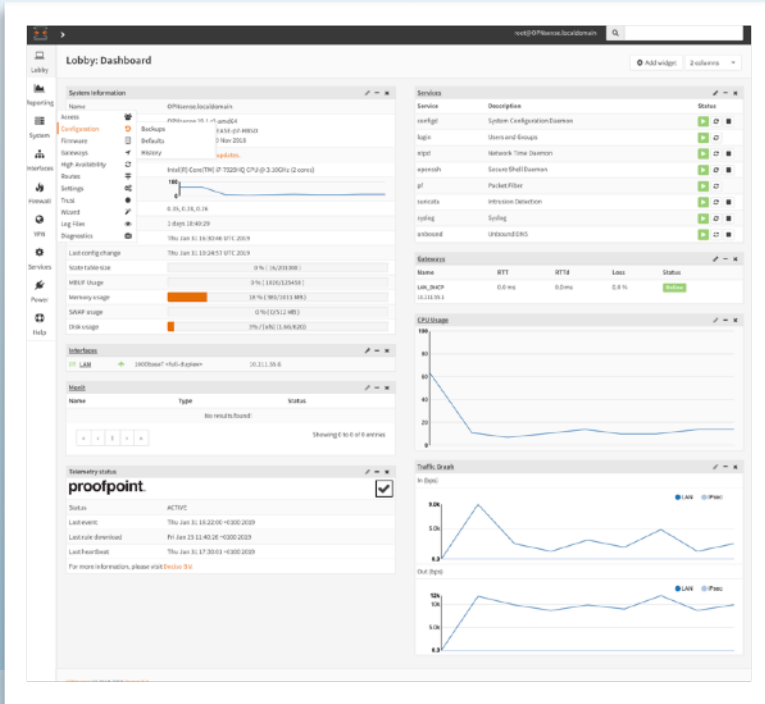# OPNsense® Business Edition

**Just the firewall a professional is looking for**

OPNsense Business Edition is intended for companies, enterprises and professionals looking for a more selective upgrade path (lags behind the community edition), additional commercial features and who want to support the project in a more commercial way compared to donating.

**Practical OPNsense**
Enterprise firewalls build on open source
Markus Stubbig

- ✓ Commercial firmware repository, offering a selective upgrade path
- ✓ Access to the official OPNsense Open Virtualization Format Image (OVA)
- ✓ Free access to selected professional plugins[1] such as:

  **OPNcentral**, offering centralized upgrades and firewall status monitoring

  **Webproxy access management**, fine grained access control for users and groups.
- ✓ Free E-Book "Practical OPNsense" available in English & German
- ✓ Can be combined with Proofpoint® ET Pro Ruleset (separate product), a timely and accurate ruleset for detecting and blocking advanced threats
- ✓ Up to 20% discount on base support Subscription (Business Support Subscription)[2]

| 12 Month Subscription | 36 Months Subscription |
| --- | --- |
| € 149 | €335 (Saves 25%) |

[1] Some plugins may require additional (content) licenses
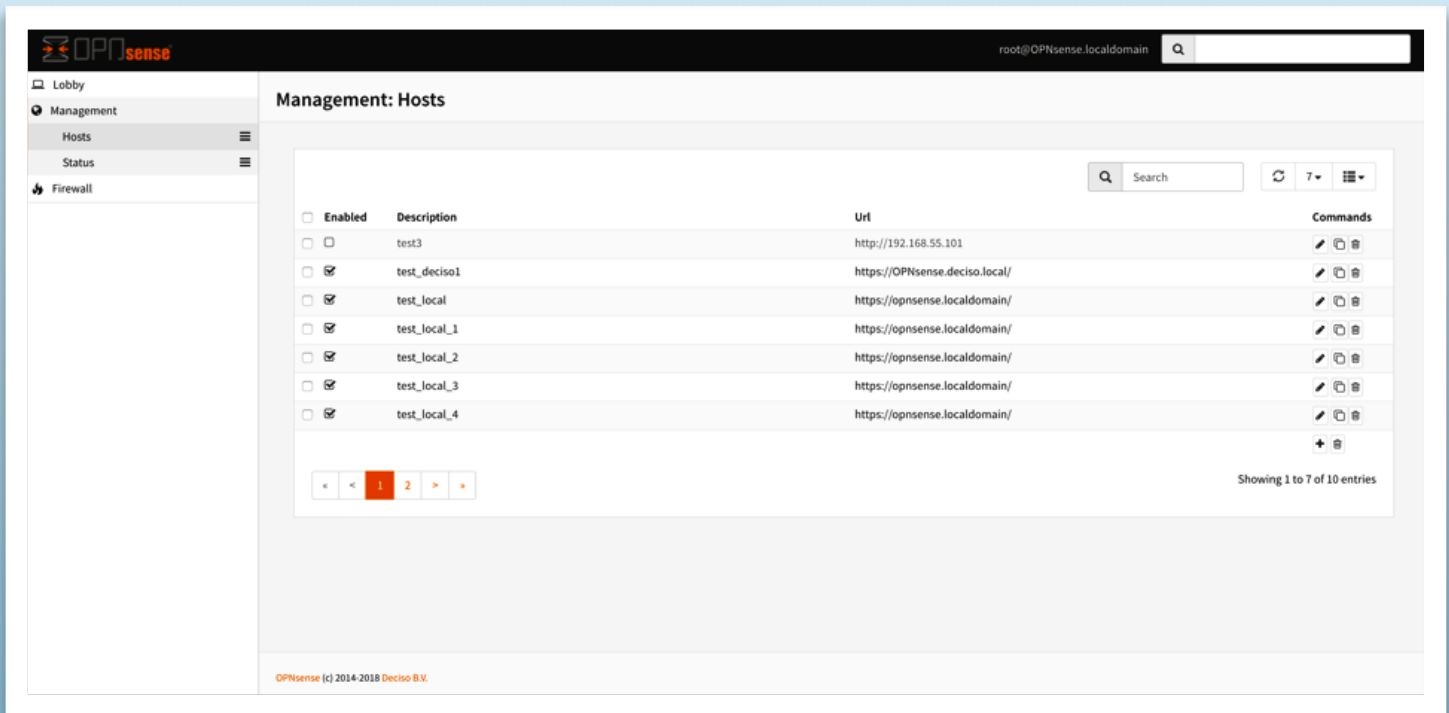[2] Discount doesn't apply to extra hour blocks

*Securing Networks™*

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OPNcentral is a centralized management plugin, it utilizes OPNsense's restAPI to offer a range of centralized features. Currently the product is a work in progress, more features will gradually become available.



▷ **Manage remote hosts using a secure connection and API secrets**
▷ **Check remote hosts, list firmware version and connection state**
▷ **Access remote hosts with one click on a simple GUI link**
▷ **Upgrade remote hosts; select one or multiple hosts and trigger the upgrade procedure centrally**

*Securing Networks™*

## 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 organisation
- Alias Support
  - IP addresses
  - Port ranges
  - Domain names (FQDN)
  - Geolite2 Country IP
- 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)

## Authorisation
- User Interface
  - Local User Manager

## Accounting
- FreeRadius (Plugin & External)
- Vouchers / Tickets

## 2-Factor Authentication
- Supports TOTP
- Google Authenticator

## 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
- 1:1 of ip's & subnets
- Outbound NAT
- NAT Reflection

## Traffic Shaping
- Limit bandwidth
- Share bandwidth
- Prioritise traffic
- Rule based matching
  - Protocol
  - Source
  - Destination
  - Port
  - Direction

## IGMP Proxy
- For multicast routing

## Universal Plug & Play
- Fully supported

## Dynamic DNS (Plugin)
- 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
- IPv4 & IPv6
- 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
  - ET Pro Telemetry (Optional / free subscription offered by Deciso)
- SSL Fingerprinting
- Auto rule update using configurable cron
- ET Pro ruleset (paid subscription)

## 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
  - Route based (tunnel)
  - Road Warrior
- OpenVPN
  - Site to Site
  - Road Warrior
  - Easy client configuration exporter
- Tinc (Plugin)
  - Full mesh routing
- ZeroTier (Plugin)
  - VPN, SDN & SD-WAN
- WireGuard (Beta Plugin)
- PPTP / L2TP (Legacy)

## High Availability
- Automatic hardware failover
- Synchronised 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
- External engine support (ICAP)
- ClamAV (Plugin / C-ICAP)

## Reverse Proxy
- HAProxy - Load balancer (Plugin)

## Online Identity Protection
- Tor - Anonymity online (Plugin)

## Backup & Restore
- History & Diff support
- File Backup
- Cloud 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)
- OPNcentral (Comercial Plugin)

## Enhanced Reporting
- Network Flow Analyser '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 is fixed to OpenSSL for the Business Edition
- 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