WFilter NG Firewall

1 Introduction

WFilter NG Firewall(NGF) is a linux-based next generation firewall system. Designed for business networks, it can help you to monitor and filter internet access activities, optimize bandwidth usage, and protect network security.

Since 2004, IMFirewall Software has been focused on business network security for over ten years. Our products(WFilter internet content filter, WFilter NG firewall) provide competitive internet content security and network security solutions for business networks.

2 Highlights

- ✧ Real-time monitoring and control. Put every connection under control.
- ✧ Internet Usage Monitoring: recording of web and email activities, various statistics and reports, SSL inspection.
- ✧ Powerful Internet Filtering Features: connection tracking, URL category filtering, application control, messenger filter ...
- ✧ Bandwidth Shaper and Optimizer: multi-wan load balancing, advanced routing, packet priority, bandwidth shaper.
- ✧ VPN: pptp server, ipsec tunnels.
- ✧ Continuous research and development for over ten years.

3 Benefits

3.1 Bandwidth Optimization

WFilter NG Firewall provides a set of solutions for bandwidth optimization, including:

1. Set traffic priority
2. Bandwidth Allocator
3. Multiple WANs load-balancing and routing
4. Internet access policy

For better internet experience, you're recommended to:

1. Apply multiple DSL lines according to your requirement, then enable the Muti-WAN module to set load balancing and advanced routing.
2. Enable the Bandwidth Priority Module to set traffic priority, and let business traffic to be delivered first.
3. Enable the Bandwidth Shaper Module to allocate bandwidth for client devices or groups.
4. Set internet access policy with Access Policy Modules, and block unneeded traffic during working hours to save bandwidth.

3.2 Increase Productivity

WFilter NGF provides enterprise-level internet access control features:

1. Set internet access policy by network, ip address, mac address or username.
2. Various types of user authentication: AD integration, web auth, radius server ...
3. Support up to 60+ web categories and 2000+ protocols.
4. Identify protocols by signature matching. P2P applications can all be completely blocked.

3.3 Data Loss Prevention

WFilter NGF can provide recording of web and email activities, internet usage statistics

and reports, SSL inspection.

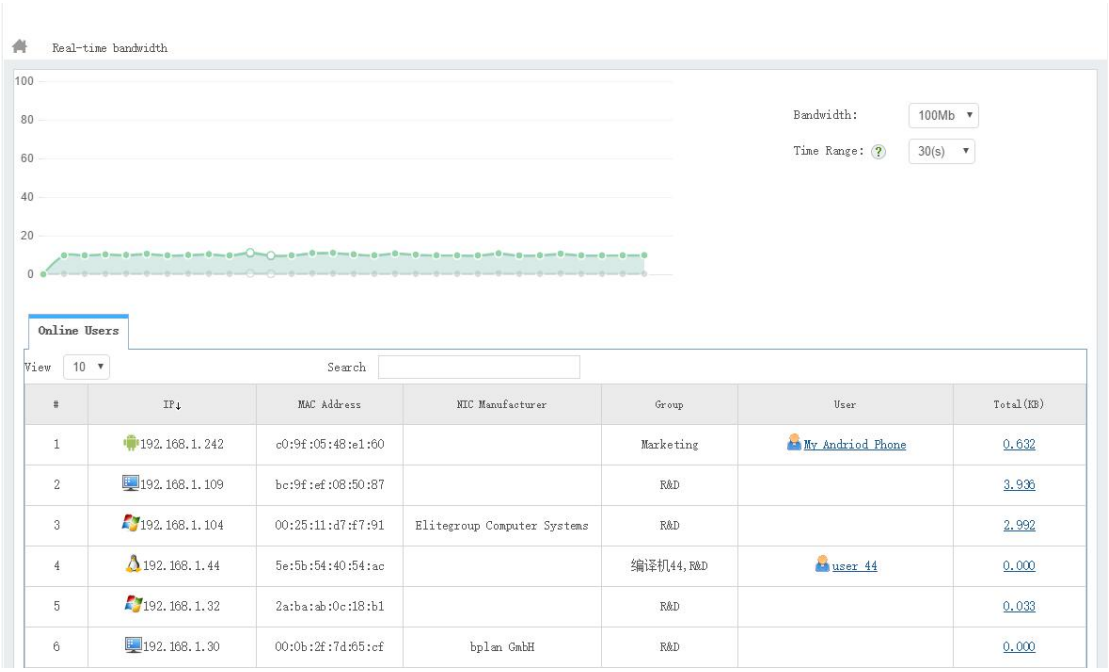
1. Recording of web and email usage.
2. SSL inspection of SMTP/POP3/IMAP over ssl and HTTP over SSL.
3. Internet usage statistics and reports.
4. Blocking online file storage and sharing services.

4 Features

4.1 Real-time monitoring and control

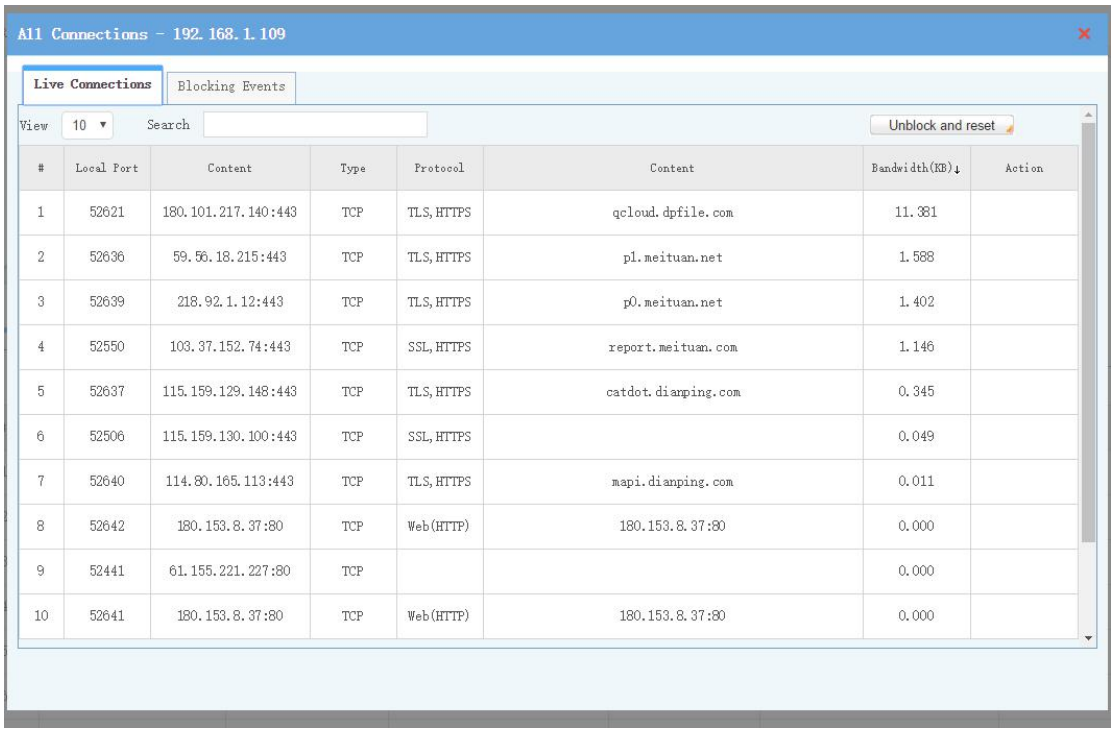
- ✓ Real-time bandwidth and connections monitoring. Put every connection under control.
- ✓ List of live clients, with bandwidth, IP, MAC, username and OS information.
- ✓ List of live connections, with target port, ip and domain information.
- ✓ One click to kill live connections or set temporary punishing policy.

4.1.1 Online Devices

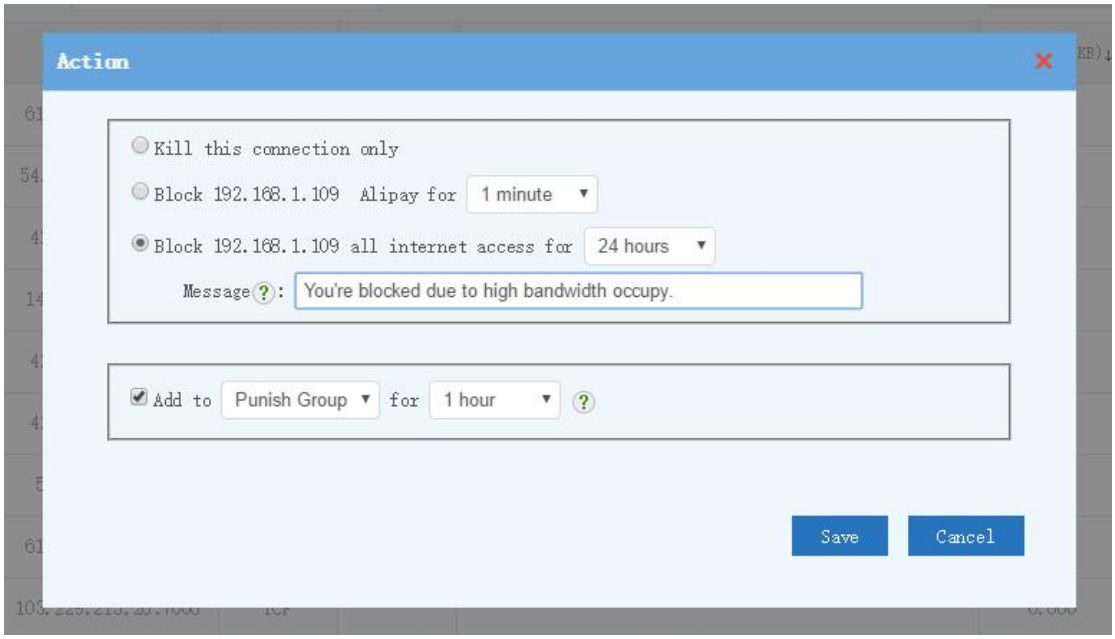


#	IP	MAC Address	NIC Manufacturer	Group	User	Total(KB)
1	192.168.1.242	c0:9f:05:48:e1:60		Marketing	My Andriod Phone	0.632
2	192.168.1.109	bc:9f:ef:08:50:87		R&D		3.936
3	192.168.1.104	00:25:11:d7:f7:91	Elitegroup Computer Systems	R&D		2.992
4	192.168.1.44	5e:5b:54:40:54:ac		编译机44,R&D	user 44	0.000
5	192.168.1.32	2a:ba:ab:0c:18:b1		R&D		0.033
6	192.168.1.30	00:0b:2f:7d:65:cf	bplan GmbH	R&D		0.000

4.1.2 Live Connections



4.1.3 Terminate & Punish

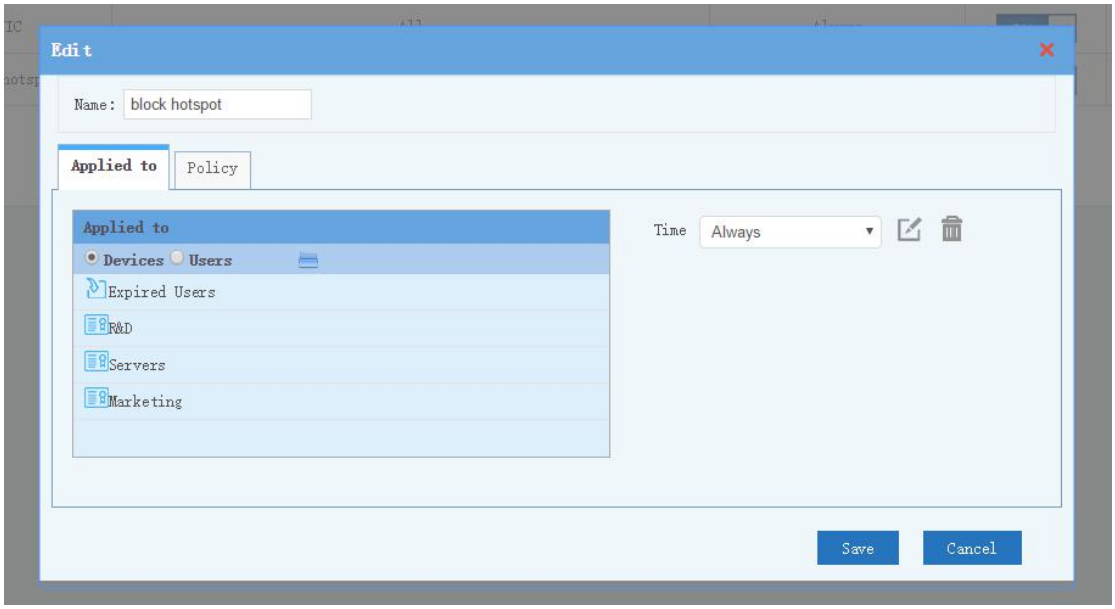


4.2 Access Control

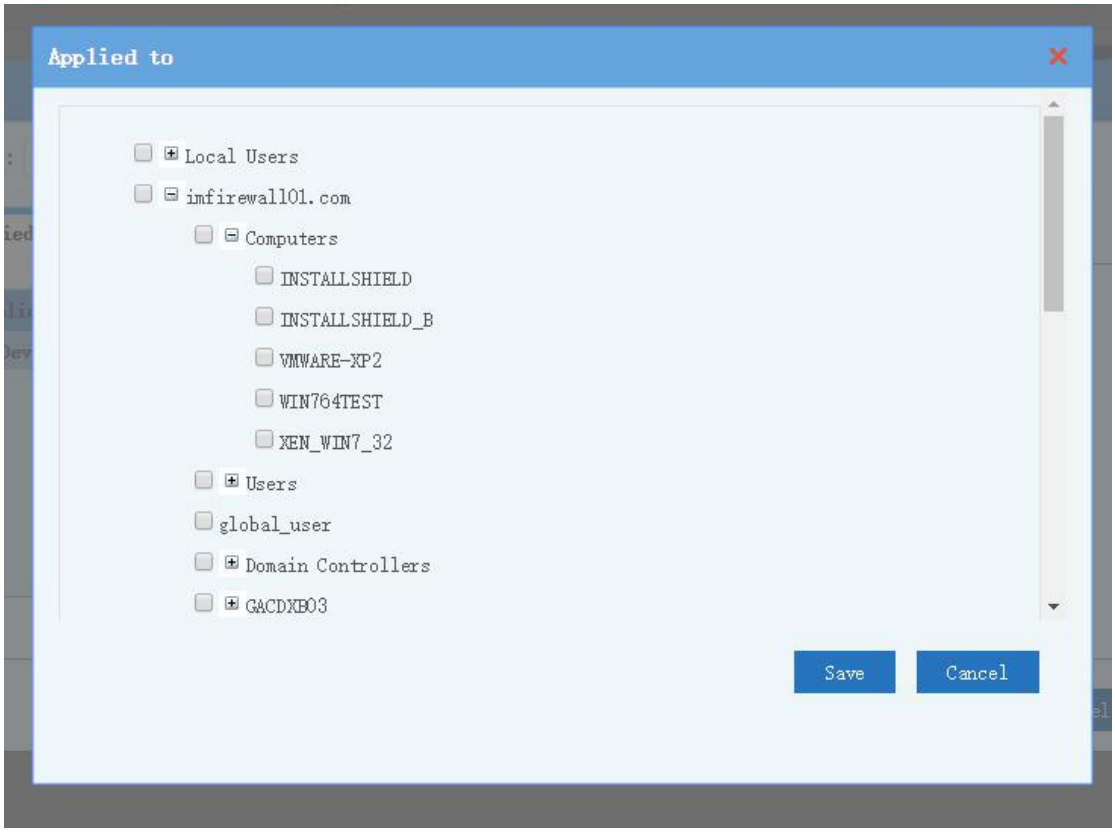
- ✓ Web filter, application control, IM filter, mail filter, IP-MAC binding…
- ✓ Set internet access policy by network, ip address, mac address or username.
- ✓ Various types of user authentication: AD integration, web auth, radius server ...
- ✓ Support up to 60+ web categories and 2000+ protocols.
- ✓ Identify protocols by signature matching. P2P applications can all be completely blocked.

4.2.1 Set policy by devices or users

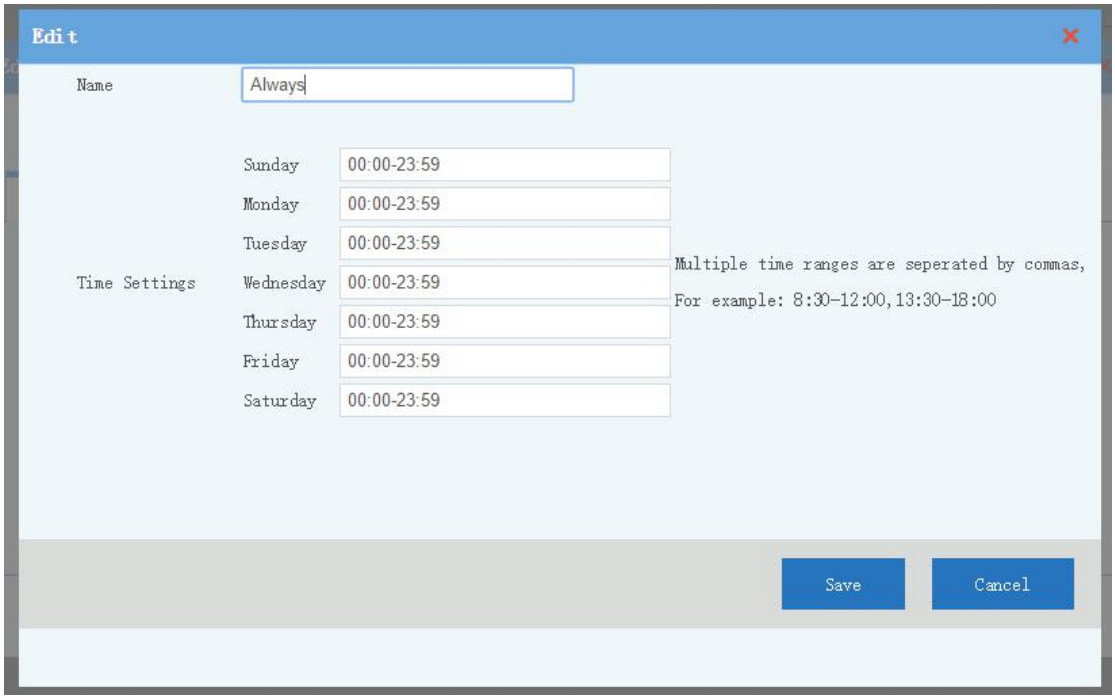
By devices



By Users

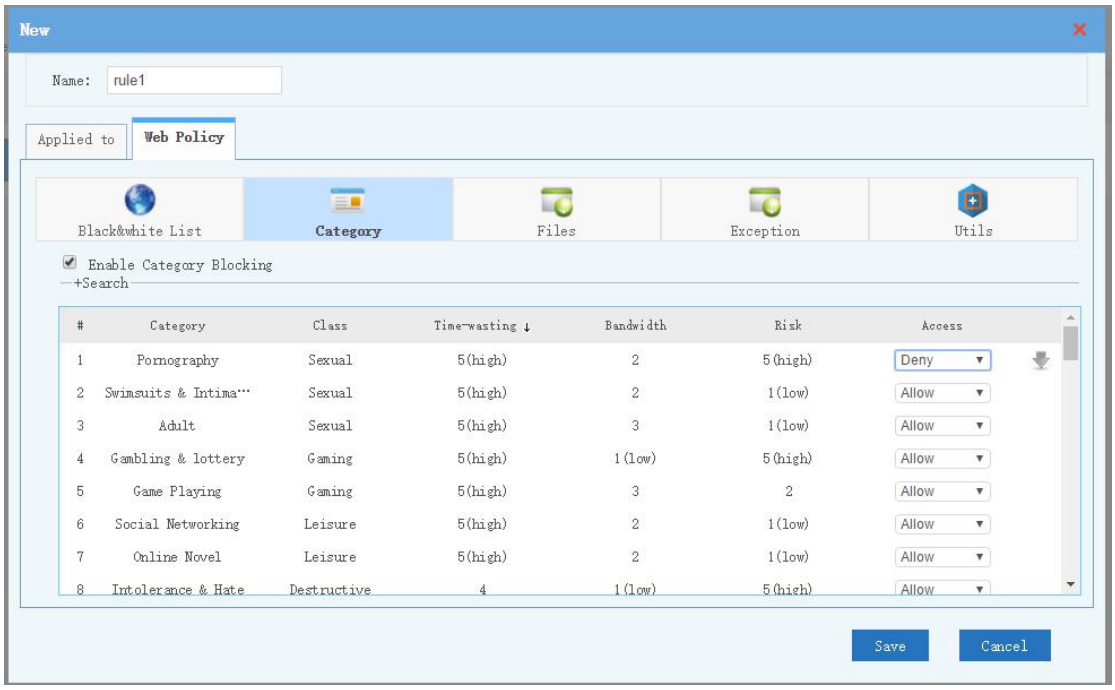


Time Settings

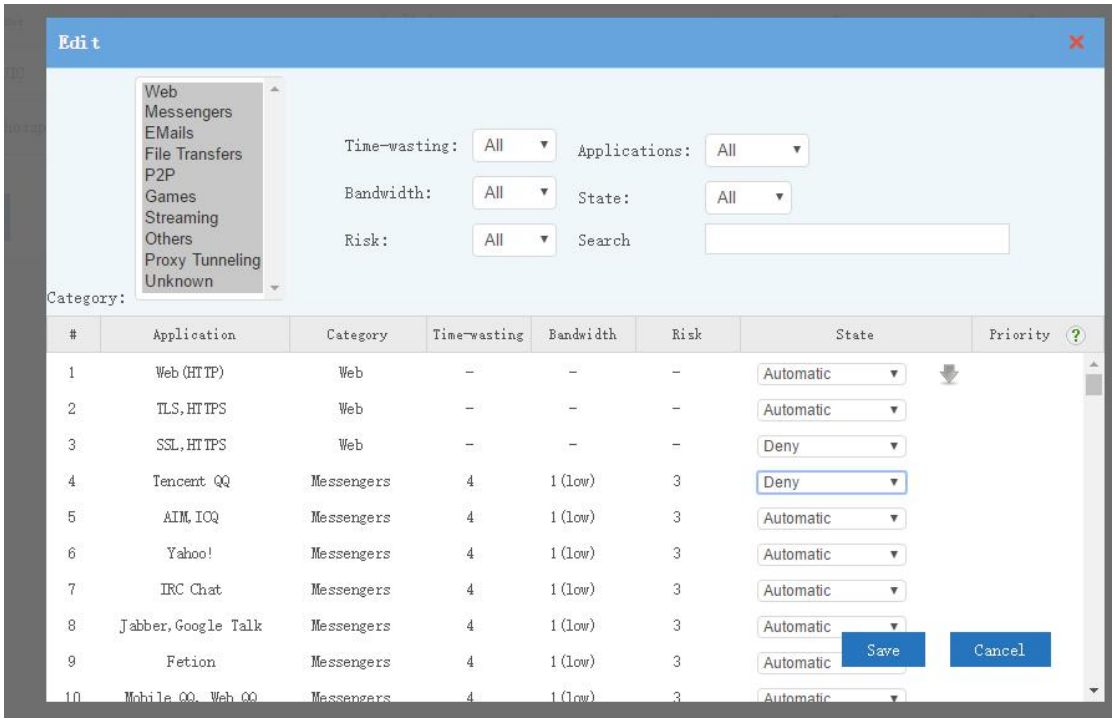


4.2.2 Web Filtering

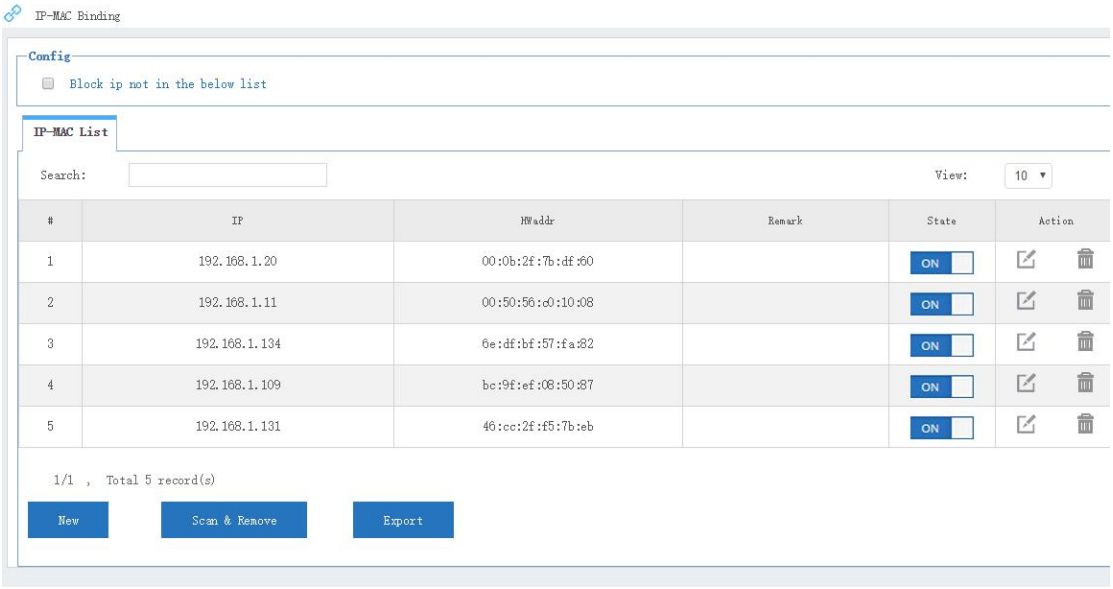
Filter websites by category, website black&white list, block file downloading by type.



4.2.3 Application Control

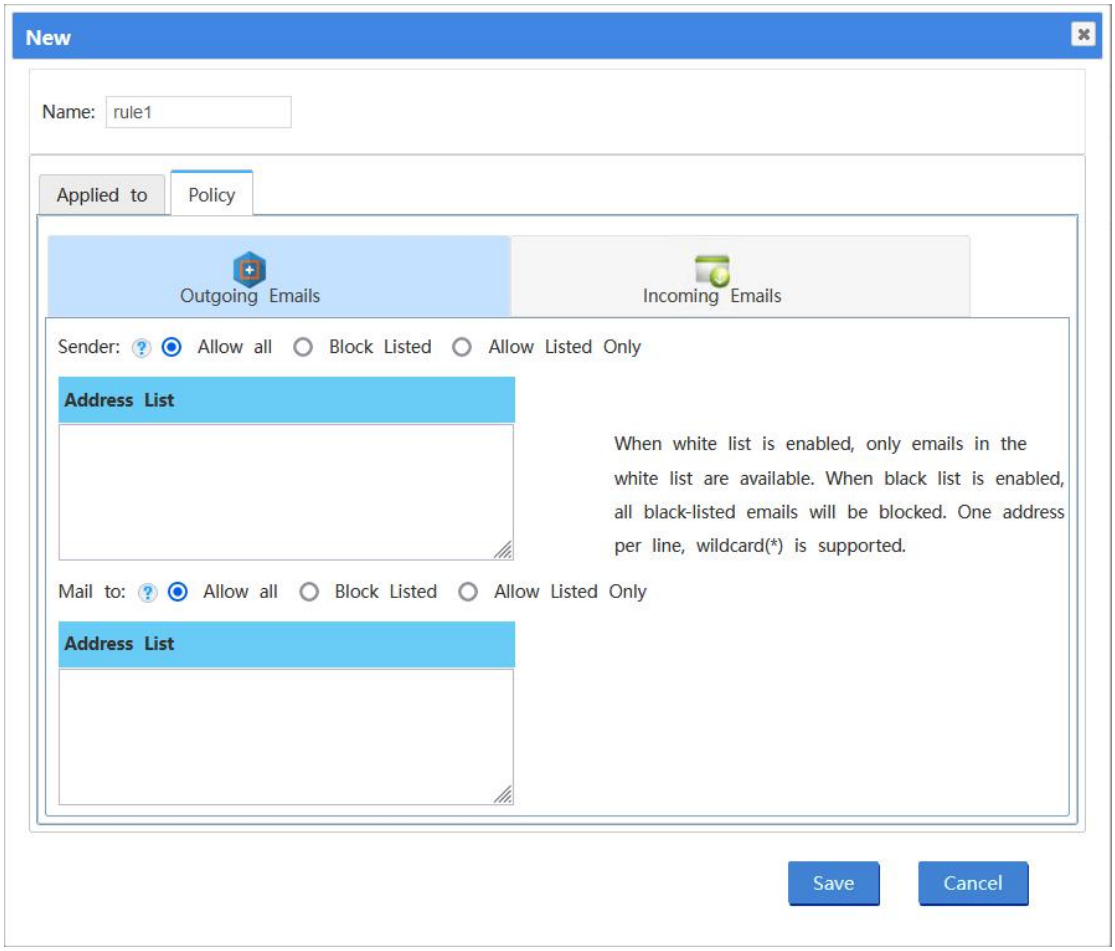


4.2.4 IP-MAC Binding



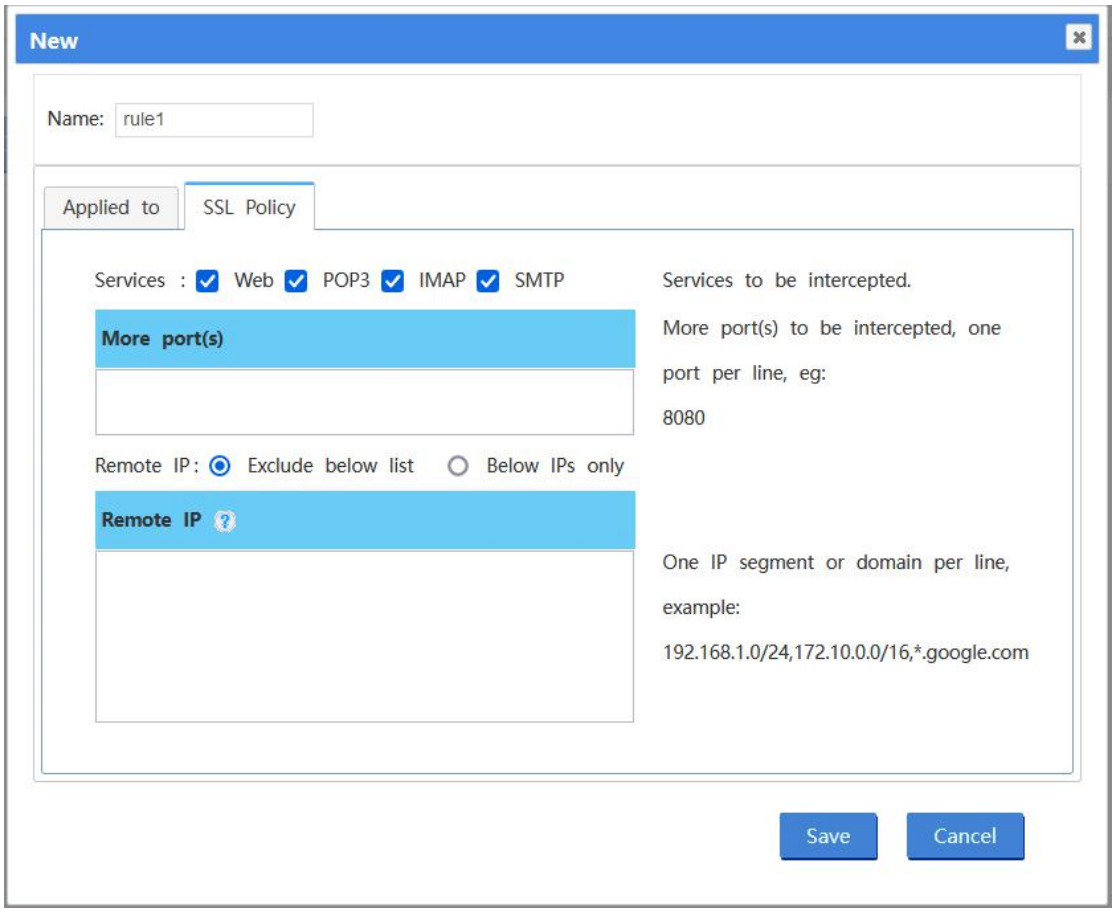
4.2.5 Mail Filter

Filter POP3/SMTP/IMAP accounts.



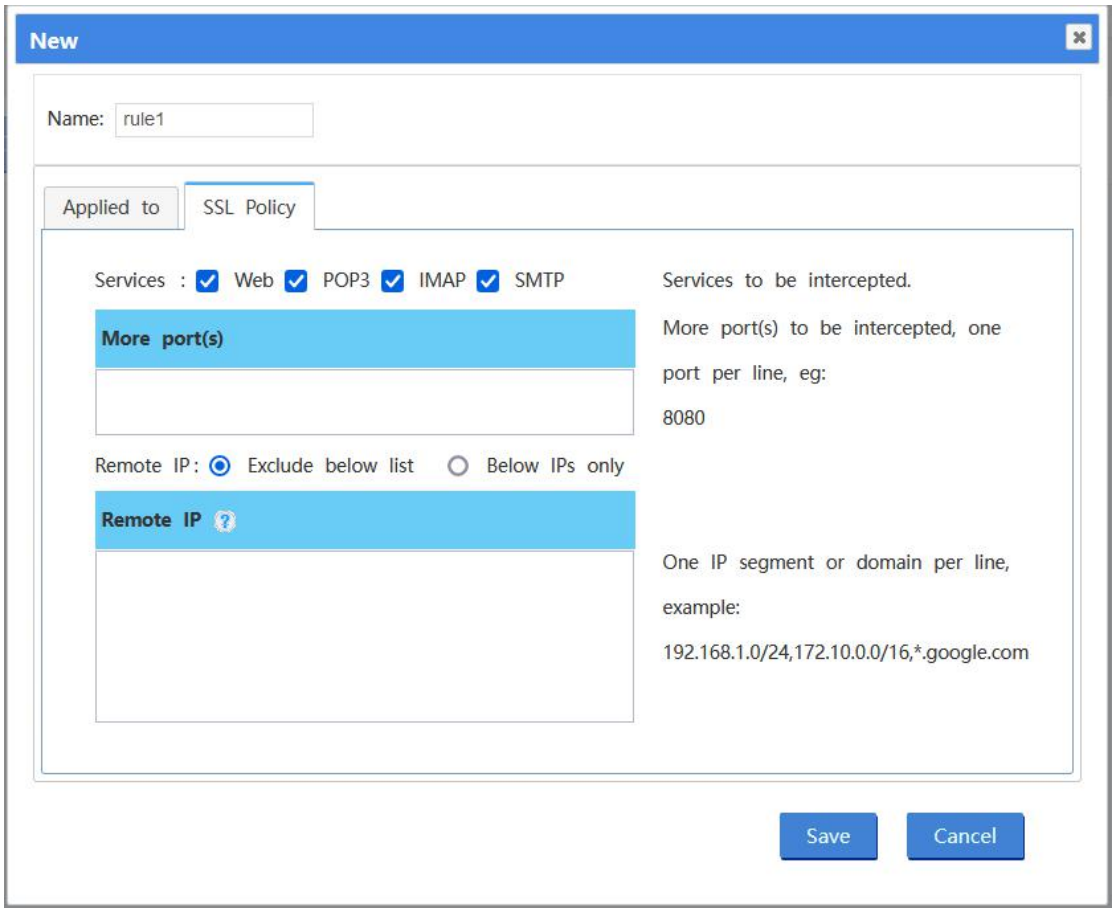
4.2.6 SSL Inspection

When enabled, you will be able to monitor and filter the contents of HTTPS websites and SSL emails(SMTP/POP3/IMAP over SSL)

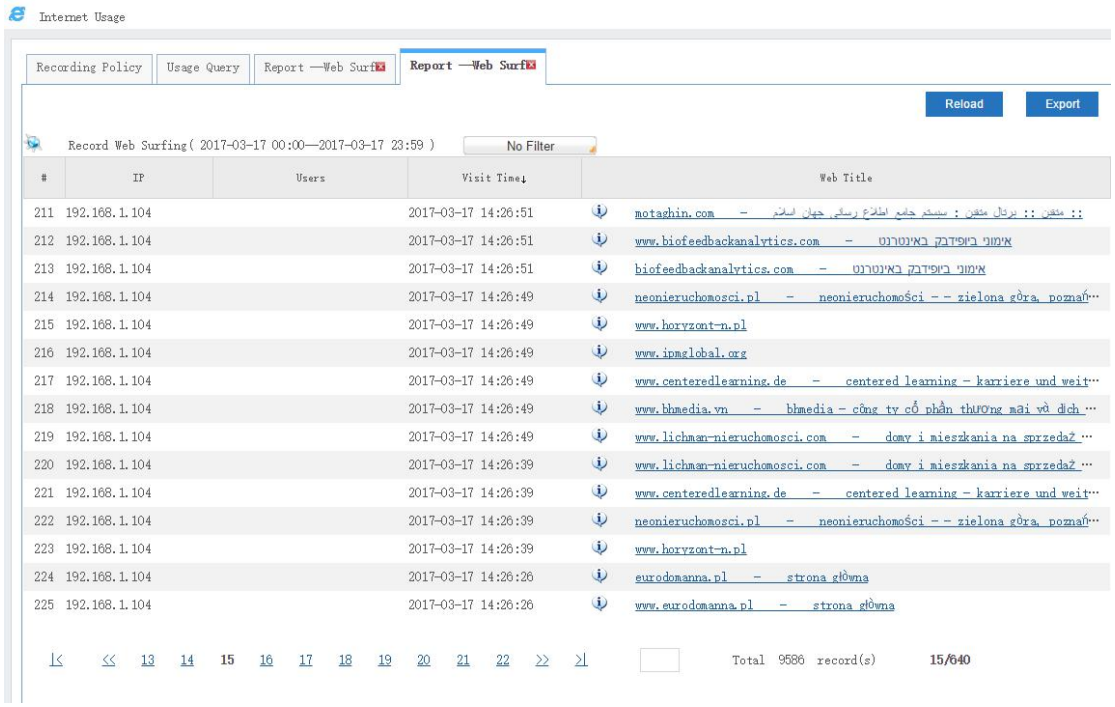


4.3 Internet Usage Recording and Reports

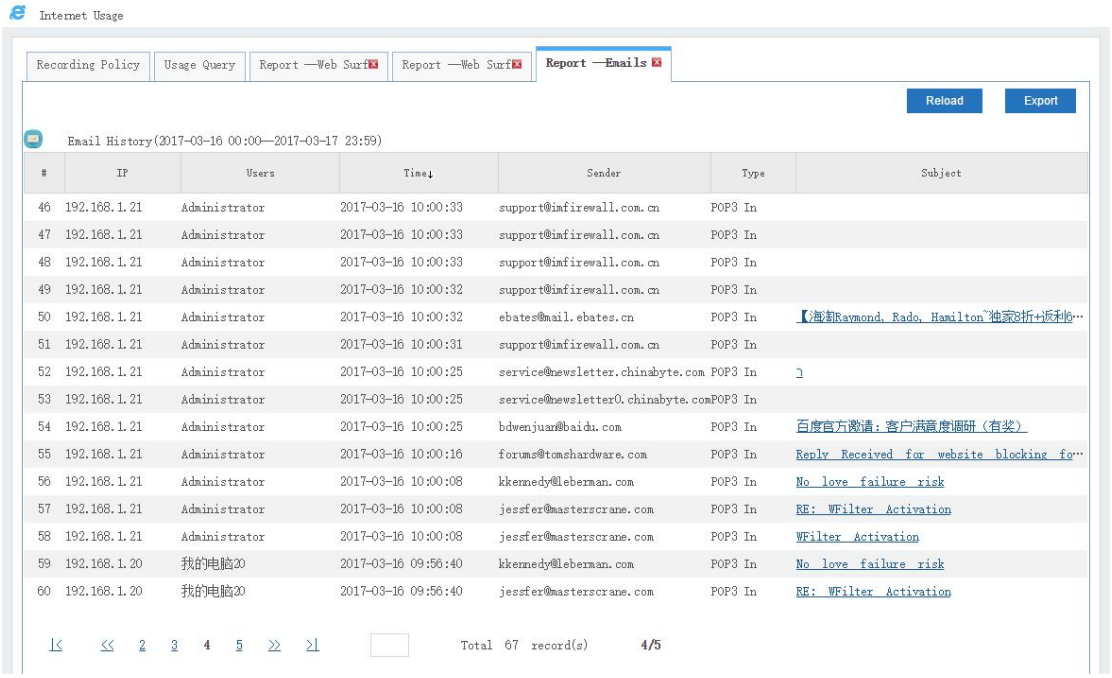
- ✓ Record web, email, FTP activities, IP-mac history. .
- ✓ SSL inspection of https websites and ssl emails.
- ✓ Various statistics and reports.

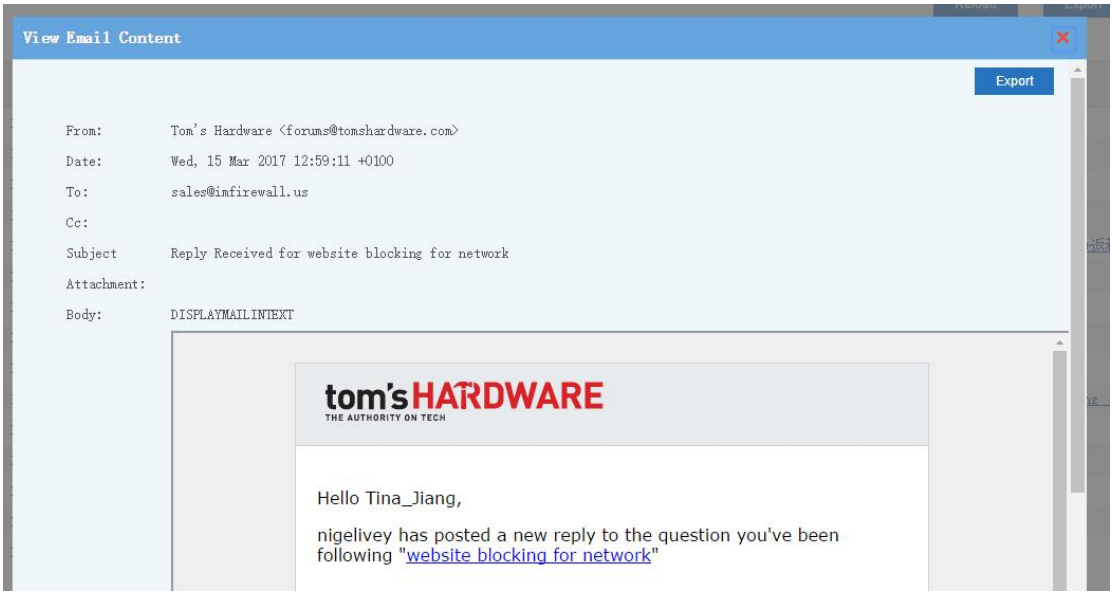


4.3.1 Web Surf History

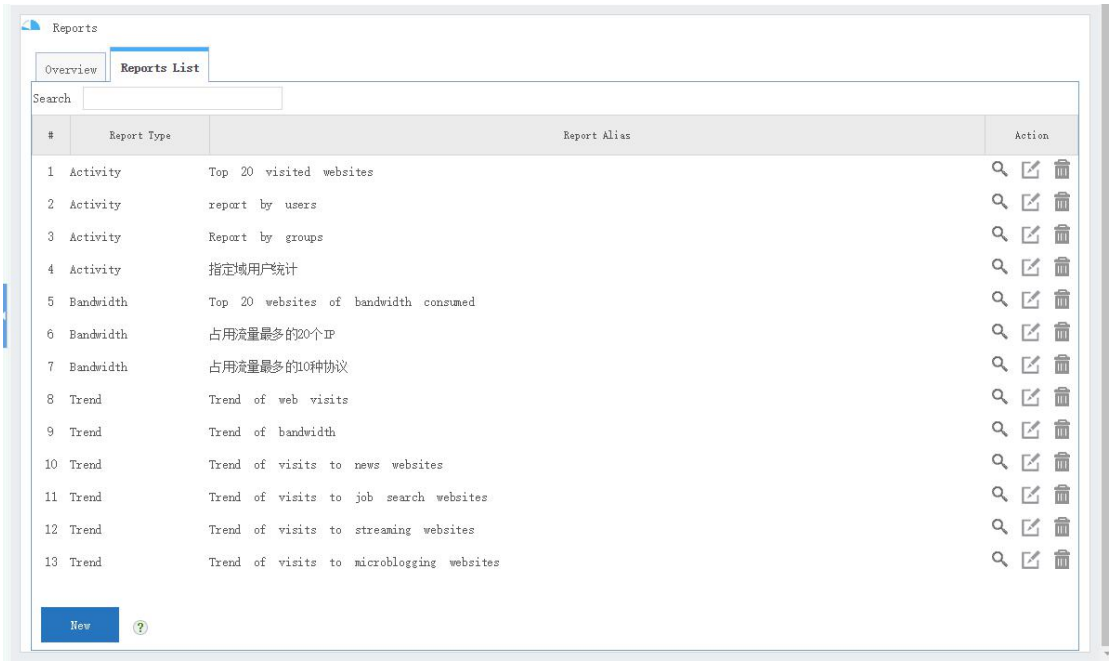


4.3.2 Email History





4.3.3 Reports



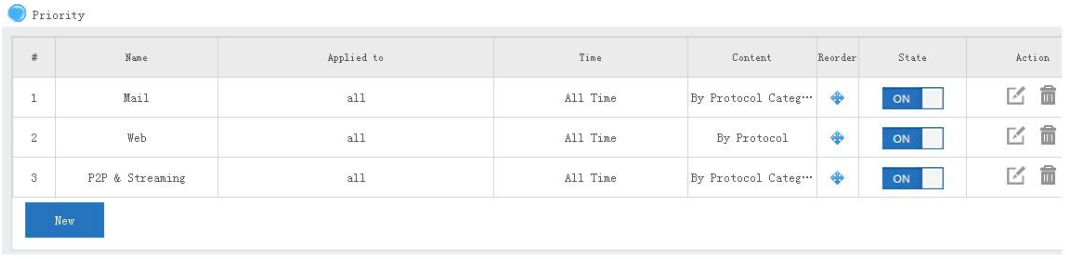
4.4 Bandwidth Optimization

✓ Packet with higher priority goes first. This feature ensures important traffic won't be delayed.

- ✓ Set bandwidth priority by protocols or domains. Online streaming won't delay web browsing.
- ✓ Multi-wan load balancing and advanced routing. Maximum your WAN lines usage.
- ✓ Set bandwidth rate-limit by IP, group, username.

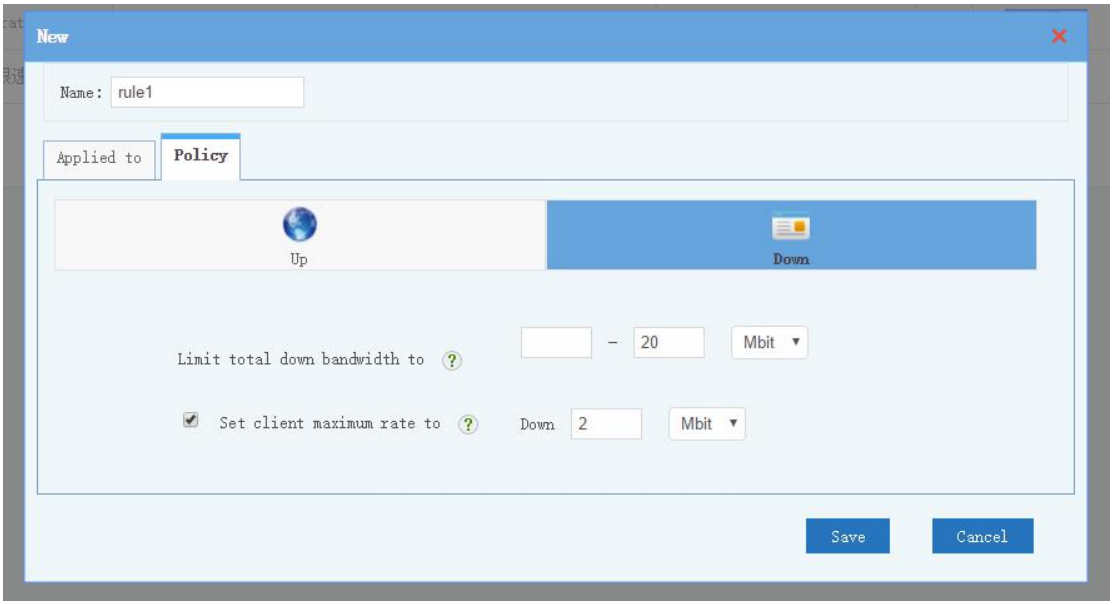
4.4.1 Optimize Rules

You can set priority based on IP, users group, usernames, protocols and domains.



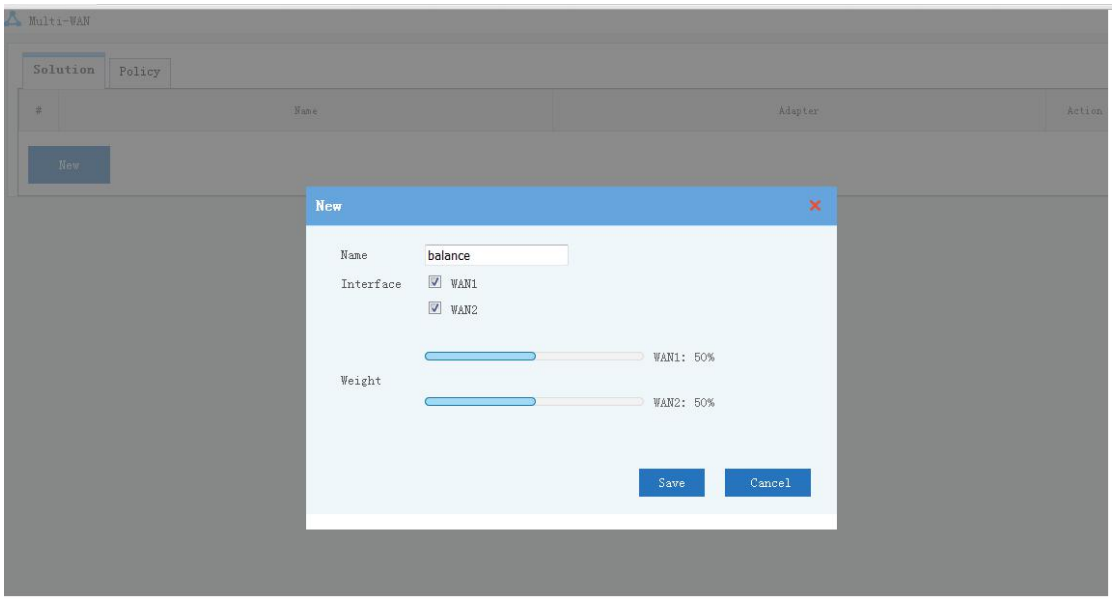
4.4.2 Rate Limit

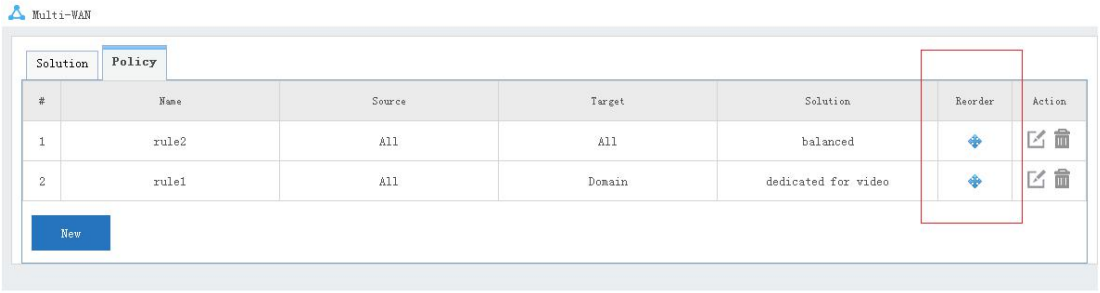
Limit bandwidth rate based on IP, group and user account.



4.4.3 Multi-WAN

Set load balancing and advanced routing when you have multiple WAN interfaces.



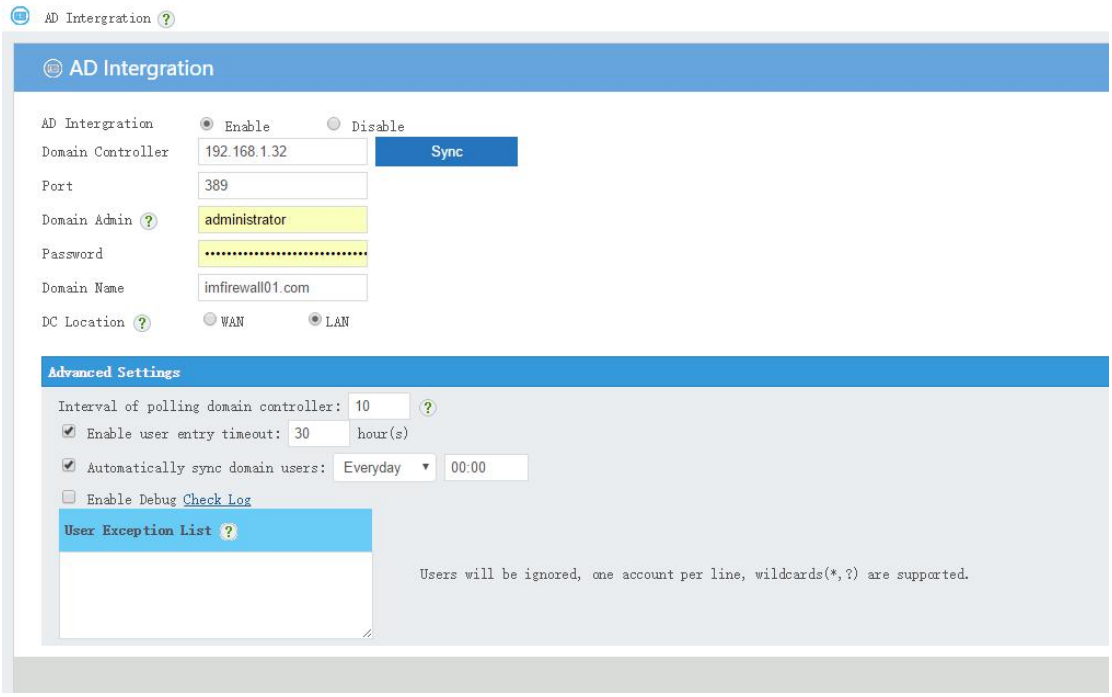


4.5 User Authentication

4.5.1 AD Integration

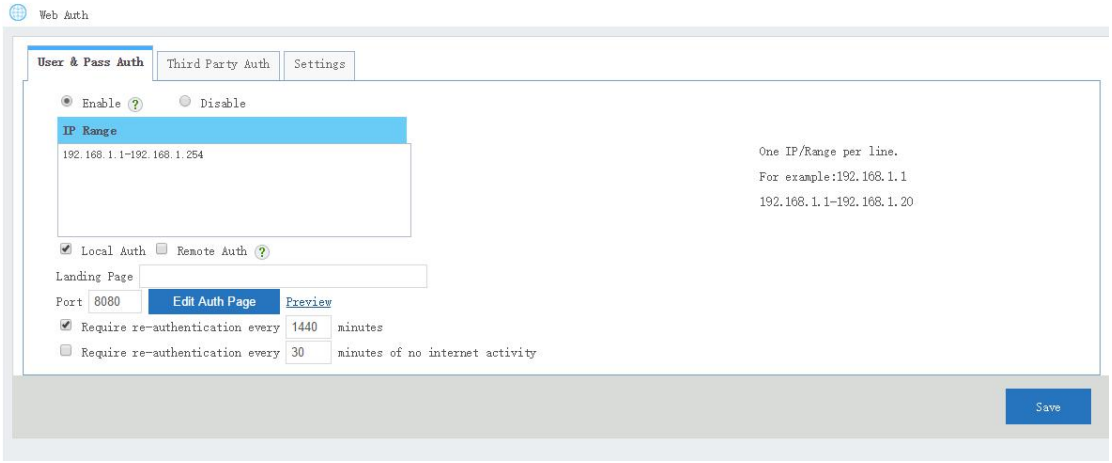
"AD Integration" enables you to integrate WFilter NG Firewall with Microsoft active directory, so you can:

1. Detect AD username of online devices.
2. Set internet access and bandwidth shaper policies based on AD users.
3. Record AD users internet activity.

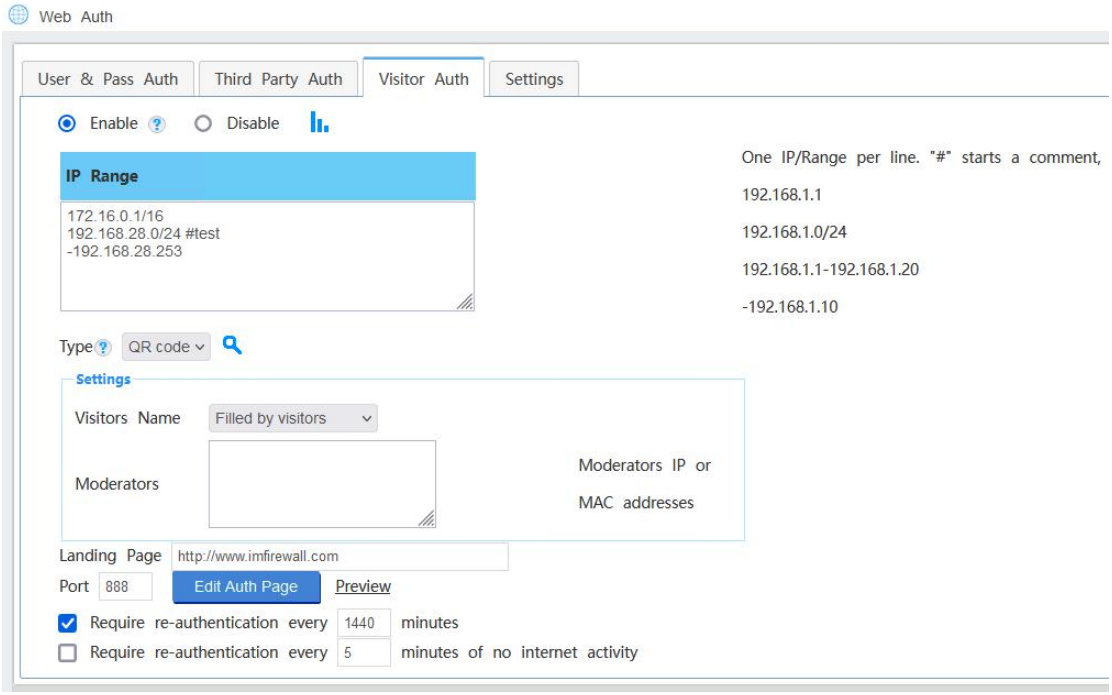


4.5.2 Web Auth

Authenticate with username and password of local accounts and remote radius users.

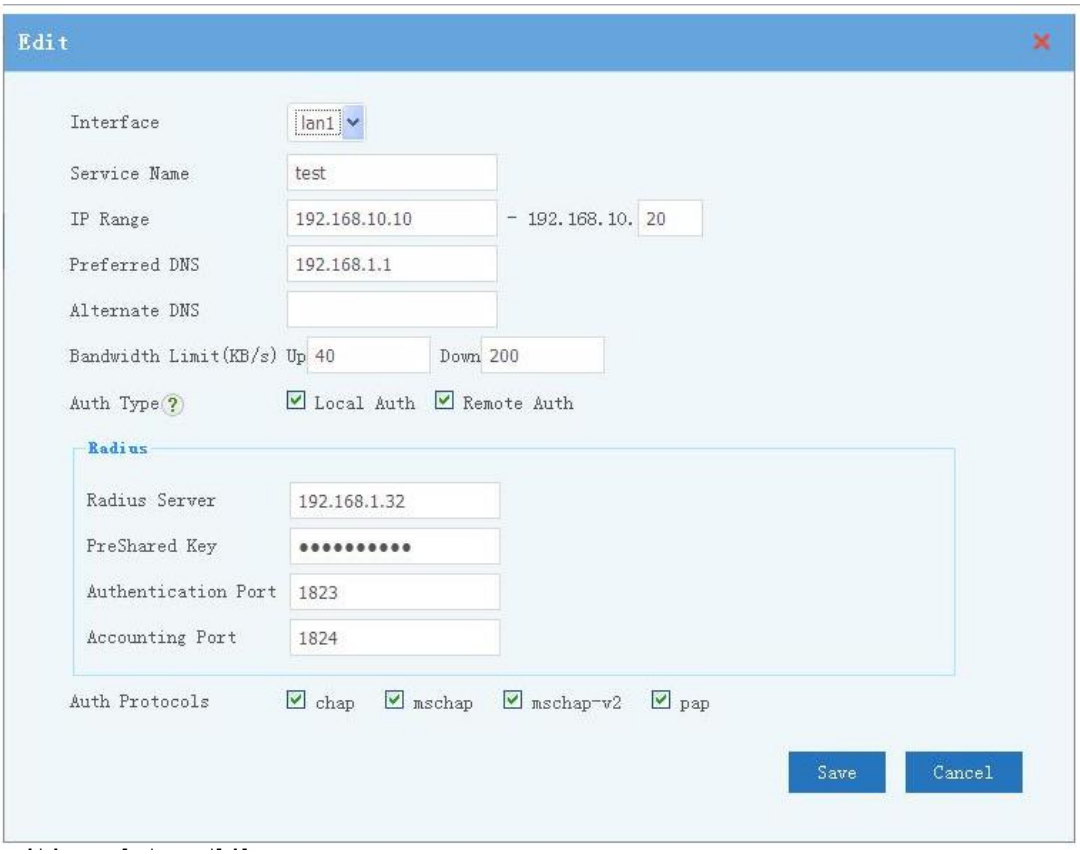


SMS authentication, QR code authentication



4.5.3 PPPoE

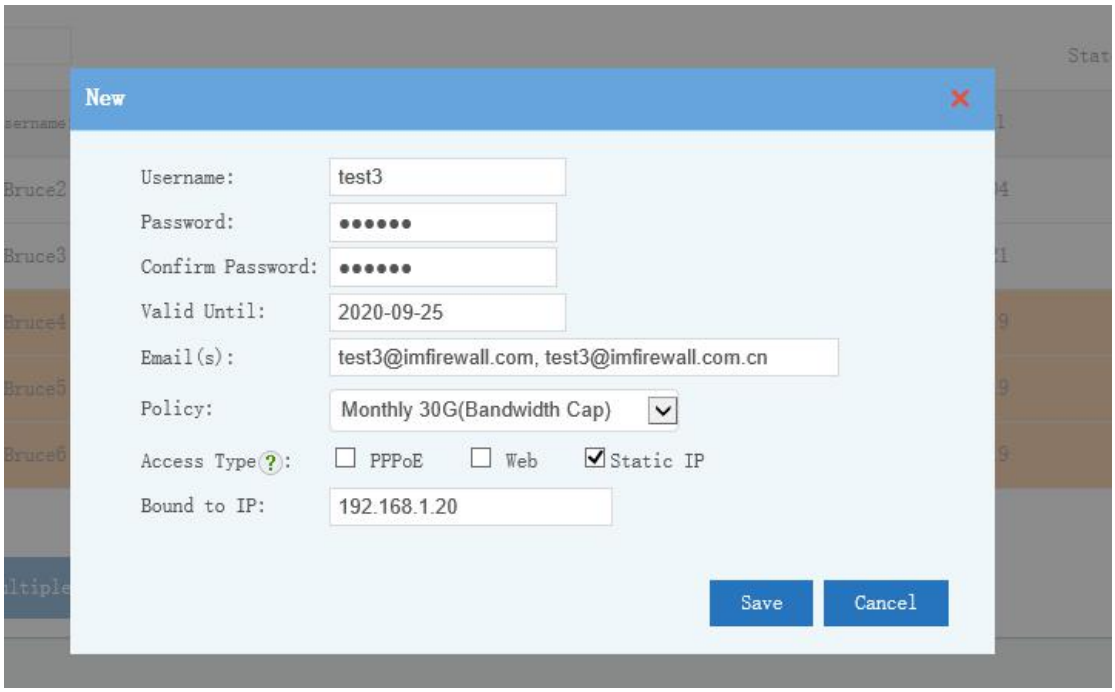
You can set multiple PPPoE services.

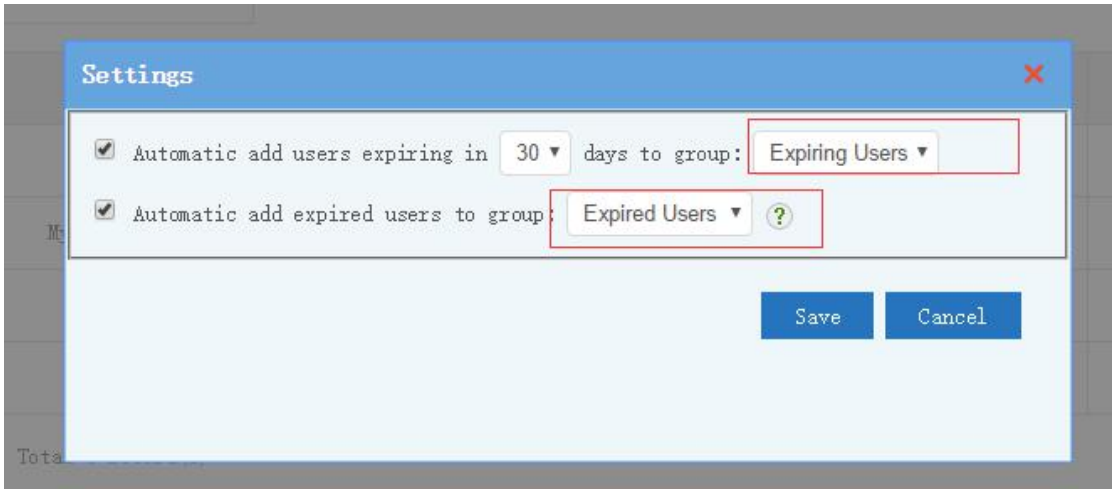


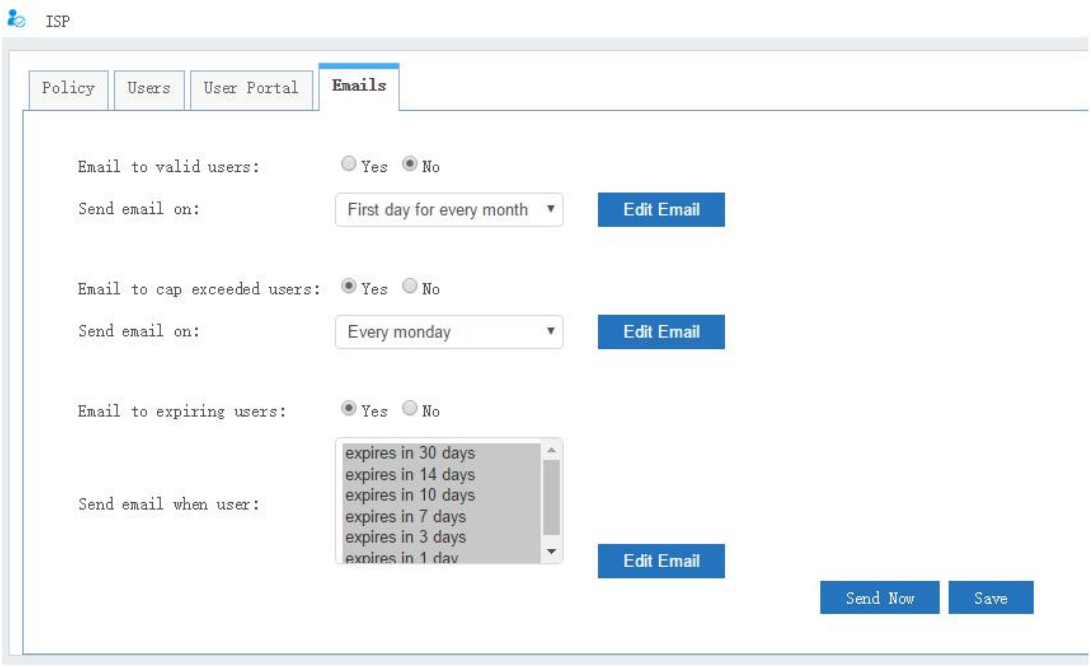
4.5.4 ISP Management

"ISP Management" provides an integrated solution for ISP management, including below features:

1. Policy management: manage ISP bandwidth policies, support "rate limiting" and "weekly/monthly bandwidth cap".
2. User management: add/edit/delete client users, query users bandwidth statistics.
3. User portal: a portal for client users to check bandwidth statistics.
4. Supports "PPPoE" and "Web Auth" and "Static IP" authentication.
5. Supports "Web Push" to send alerts and statistics to clients.





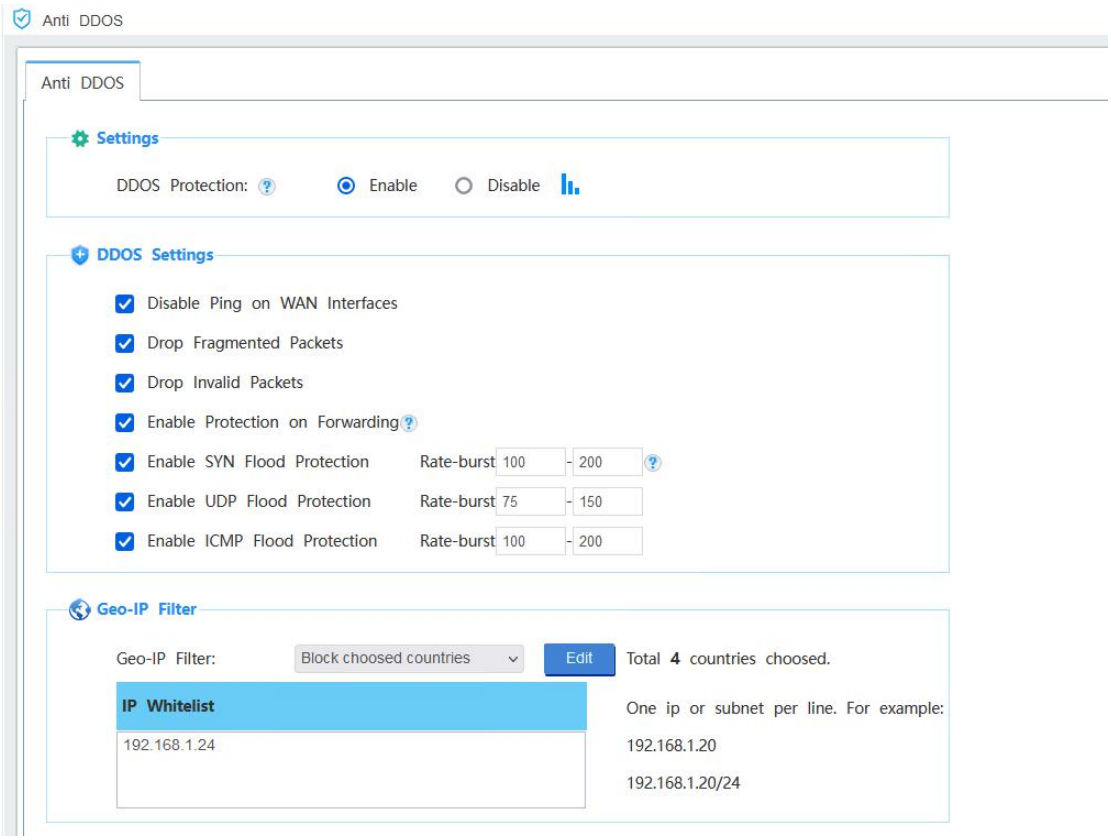


4.6 VPN

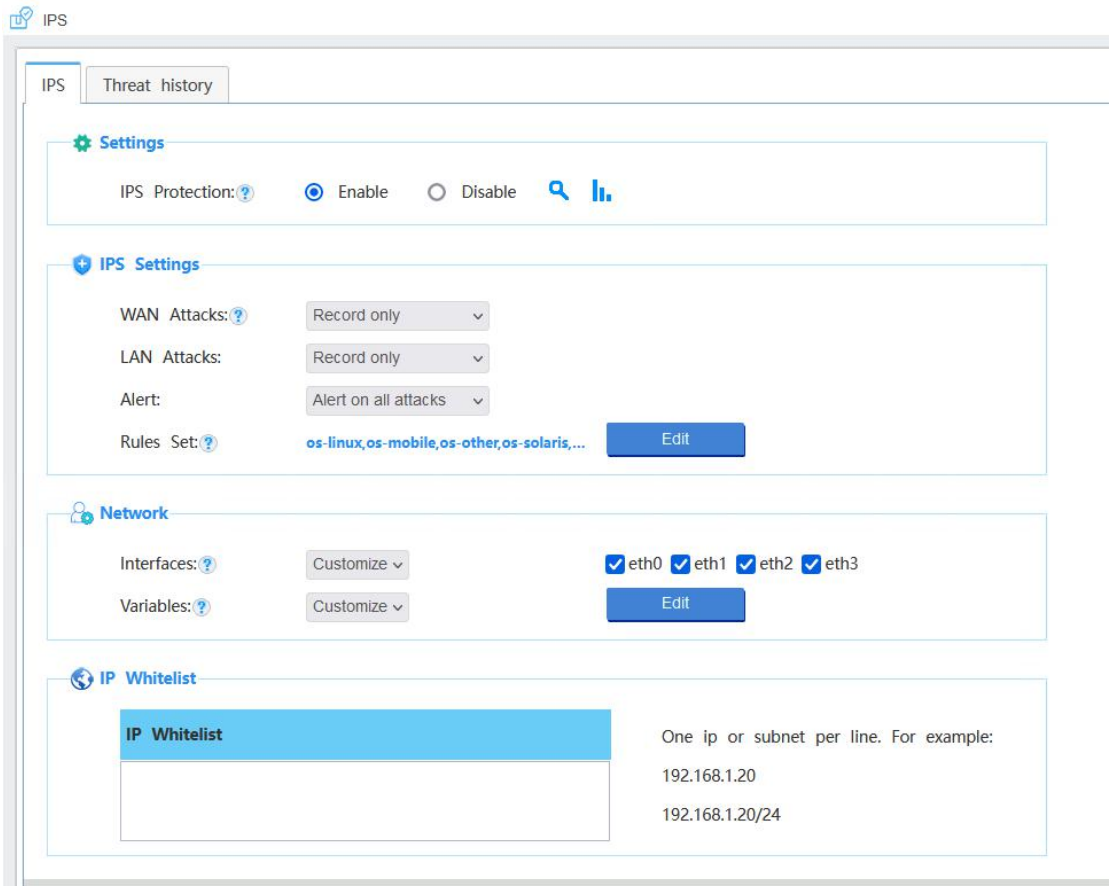
- ✓ Support pptp, l2tp, openVPN, zerotier networks.
- ✓ Connect multiple networks together with ipsec tunnels.
- ✓ Various VPN user authentication: local accounts, active directory, radius server.

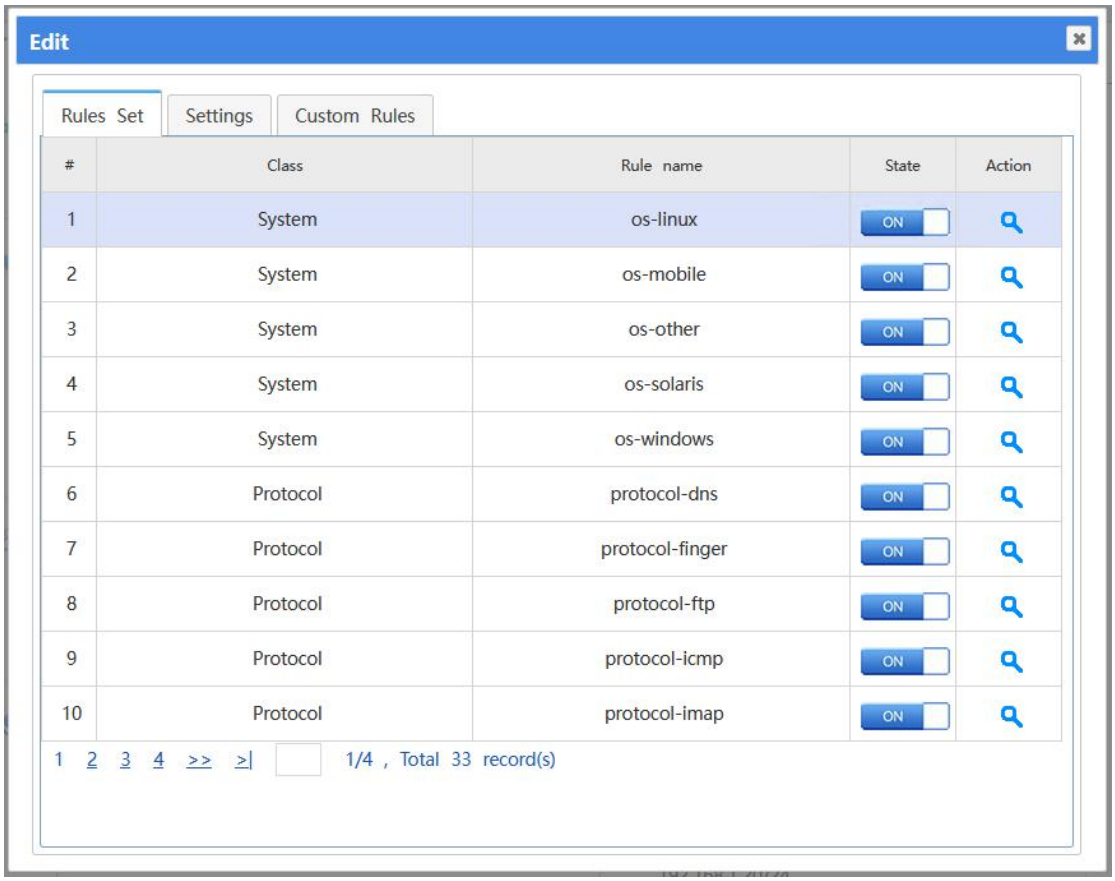
4.7 Security

4.7.1 DDos Protection

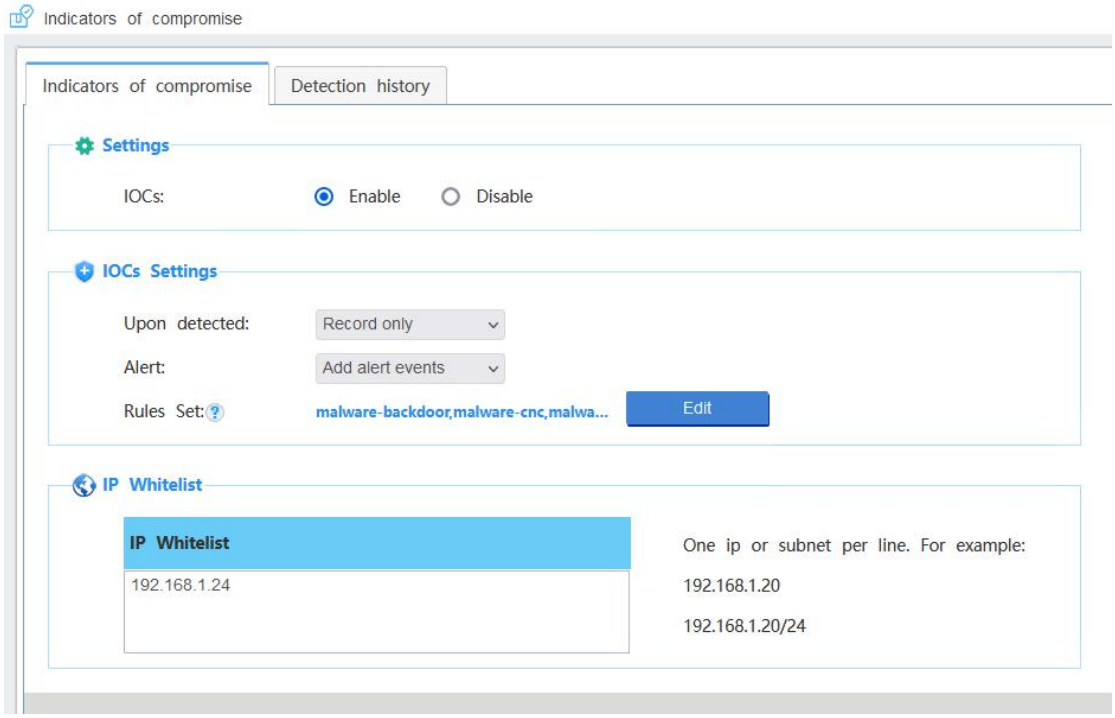


4.7.2 Intrusion Protection





4.7.3 Indicators of Compromise

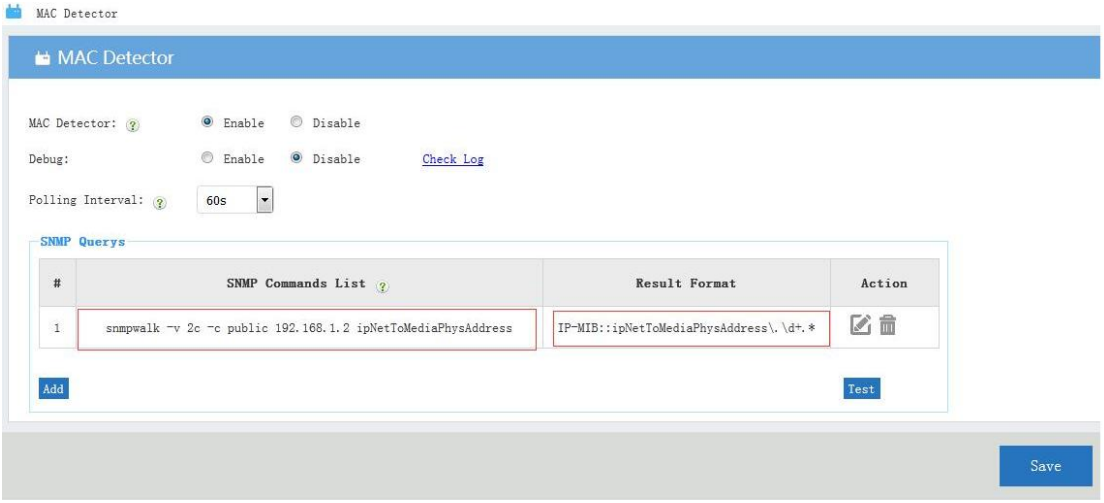


4.8 Extensions

- ✓ Scan of network client devices.
- ✓ Detection of NAT sharing.
- ✓ Scan of local proxy servers.
- ✓ Discovery of DHCP servers.
- ✓ More extensions for downloading. You also can build extensions by yourself.

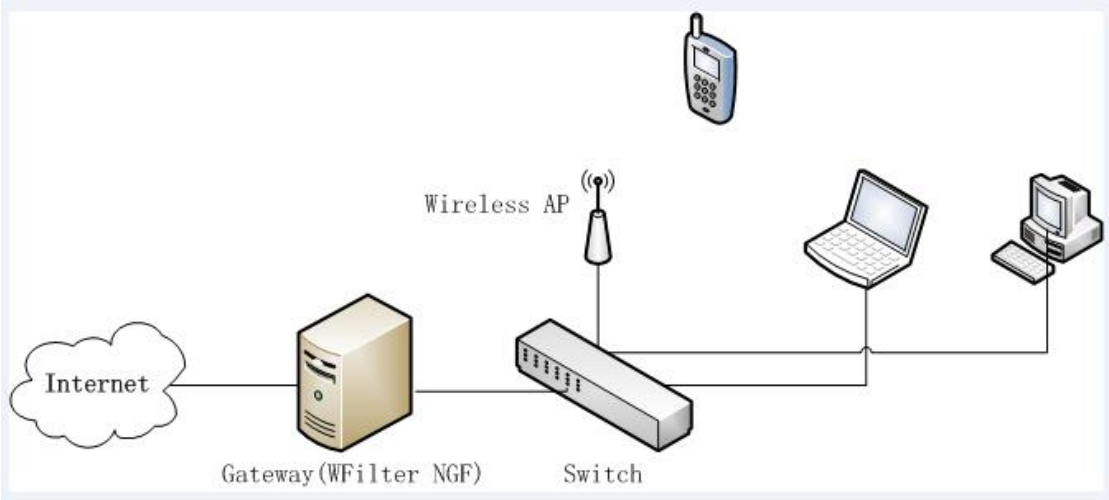
4.8.1 MAC Detector

"MAC Detector" can gather client's physical MAC addresses via SNMP protocol.

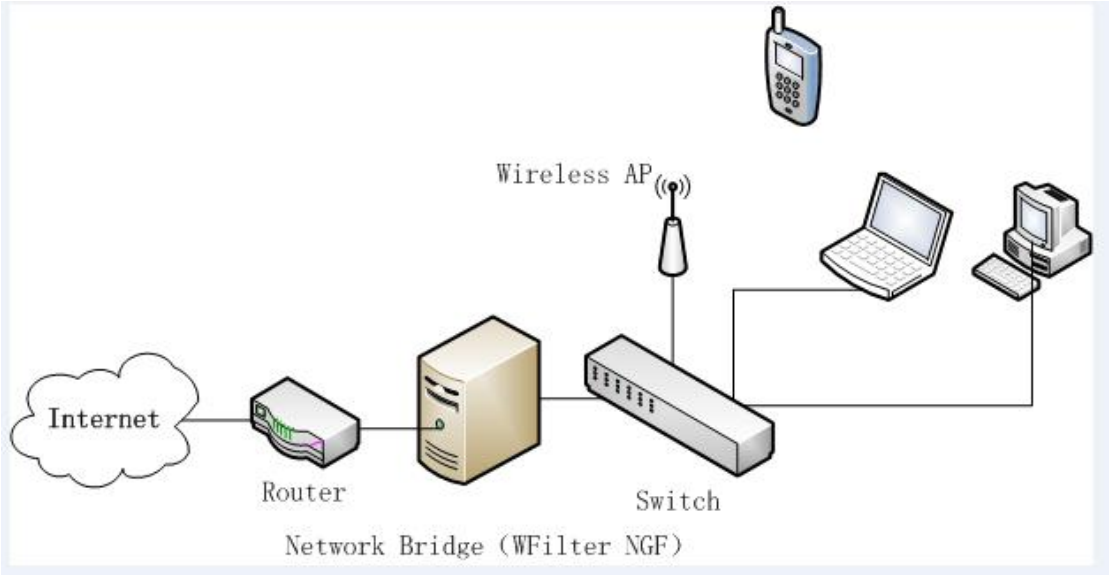


5 Deployment

5.1 Gateway



5.2 Bridge



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