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# Mikrotik Routers Best Practice Firewall

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support team; 2 Firewall. 2.1 Basic router protection based on connection state and IP address type by using Firewall; 2.2 Block specific domains by using scripts; 2.3 Ease load on firewall by sorting firewall filter, NAT and mangle rules; 2.4 Ease load on firewall by using no-mark as a mark for packets and connections

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Miscellaneous. Zone Based Firewall - ZBF; Basic universal firewall script; Attempt To Detect And Block Bad Hosts; Securing A New RouterOS Install; Spam Filtering with Port Forwarding and Geo-Location

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The Mikrotik firewall, based on the Linux iptables firewall, is what allows traffic to be filtered in, out, and across RouterOS devices. It is a different firewall implementation than some vendors like Cisco, but if you have a working knowledge of iptables, or just firewalls in general, you already know enough to dive in. Understanding the RouterOS firewall is critical to securing your devices and ensuring that remote attackers can't successfully scan or access your network.

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Mikrotik routers straight out of the box require security hardening like any Arista, Cisco, Juniper, or Ubiquiti router. Some very basic configuration changes can be made immediately to reduce attack surface while also implementing best practices, and more advanced changes allow routers to pass compliance scans and formal audits.

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Get the router ready for use with TR069. This Best Practices Guide shows an example of RouterOS initial setup if it needs safe/preconfigured factory-reset with custom configuration, especially when tr069 is used. It can be useful in cases when the user (or provider unknowingly) has misconfigured device in a non-reversible state. Then factory-reset configuration can be applied using TR069 FactoryReset RPC or through RouterOS /system reset-configuration or by using the reset button on the router.

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[admin@MikroTik] /ip dhcp-server setup [enter] Select interface to run DHCP server on dhcp server interface: local [enter] Select network for DHCP addresses dhcp address space: 192.168.88.0/24 [enter] Select gateway for given network gateway for dhcp network: 192.168.88.1 [enter] Select pool of ip addresses given out by DHCP server addresses to give out: 192.168.88.2-192.168.88.254 [enter ...
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