DATASHEET

sipPROT

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sipPROT

sipPROT is a PBXware and SERVERware module that provides protection from SIP attacks. Brute-force break-in attempts and Denial of Service attacks are quite frequent and an unpredictable threat. Unprotected VoIP PBX systems are very sensitive to this kind of attacks. The most common consequences of this kind of network attack are VOIP service downtime, Call quality issues due to an overloaded network, and Direct financial loss due to network instability. sipPROT's main purpose is to prevent those attacks.

IP Address filtering and blocking

Allowlist

List of IP addresses that will not be blocked by sipPROT at no circumstances. IP addresses in the allowlist are added manually by the administrator. For easier management, SERVERware administrators can now import and export CSV files with lists of allowed IP addresses.

Denylist

List of IP addresses that will always be blocked by sipPROT. IP addresses in the denylist are added either manually, by administrator, or automatically by sipPROT, from the dynamic denylist. For easier management, SERVERware adminsitrators can import and export CSV files with lists of blocked IP addresses.

GeoIP blocking

Enables users to allow/block specific IP ranges corresponding to particular countries. This feature uses a GeoIP repository from a 3rd pary service.

SIP Traffic Protection

Protocols TCP/UDP

sipPROT is monitoring SIP traffic on both TCP and UDP protocols.

Dynamic Denylist Management

sipPROT will temporarily put any IP address to the dynamic denylist in case it detects multiple register attemps, based on a time span defined by the adminsitrator. After the predefined period expires, the IP address will be removed from the dynamic denylist automatically.

Multiple Port Protection

With sipPROT, you can specify a single port, multiple ports or a range of ports to be protected.

SIP Register Protection

SIP REGISTER protection dynamically blocks an IP address if a number of bad SIP registrations exceeds the configured threshold within a given monitoring period. Administrators can specify how may times an IP address will be dynamically blocked before it is added to the static denylist.

SIP Invite Protection

SIP INVITE rate limitation does not fully protect against a SIP INVITE attack but just mitigates DoS attack impact. When a number of simultaneous SIP INVITEs exceeds the configured limit a notification will be sent to the system administrator. It is up to the system administrator to decide whether to permanently add the source IP address to deny list or to modify the number of INVITES coming from a known IP address.

SIP Scanners Protection

With sip scanner protection, sipPROT will block any requests sent by that user-agent.

TFTP protection

TFTP protection allows you to protect your server against TFTP brute force attacks.

Logging and notifications

sipPROT Dashboard

The sipPROT dashboard provides a clear overview of blocked attacks, Geo-IP data and overall health status of the firewall.

Attack Log

sipPROT's Attack Logs display logs of all SIP attacks on the system with the intention of providing better insight into the security of the entire system and allowing administrators to apply additional measures if necessary.

Daily reports

sipPROT will send a daily report email containing an attack summary to the administrator(s).

Send Log For Every Attack

You can configure sipPROT to send out notifications informing the administrator(s) of potential attacks.

Attack Notifications

sipPROT's reporting service will send out notifications if the system is currently under attack together with the attacker's and the victim's IP addresses, the method of attack, and actions that were taken in response to the attack. sipPROT will also notify in the event of a TFTP attack.

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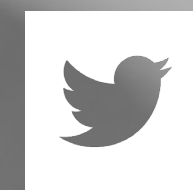2067
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