

RELEASE NOTES SERVERWARE 4.6



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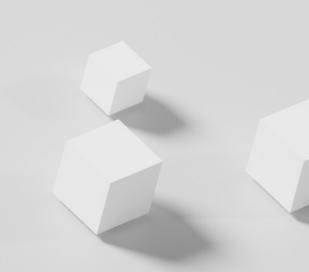


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sipPROT

sipPROT in SERVERware 4.6 comes with a complete makeover, including various enhancements, a faster in-memory database and an updated user interface aimed at boosting the overall functionality and user experience of sipPROT.

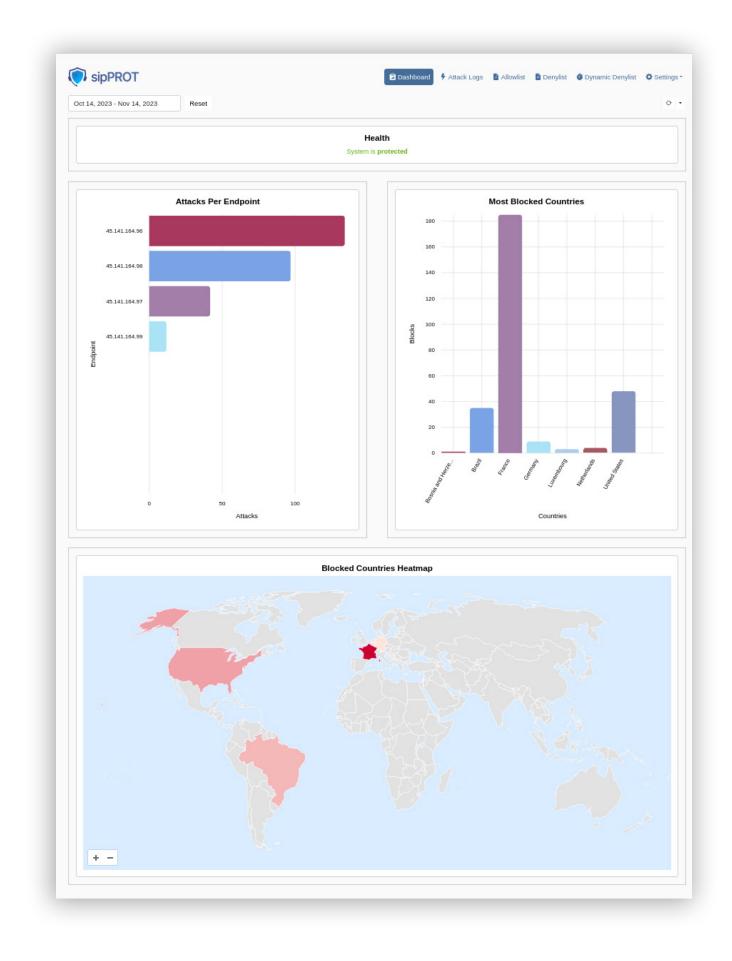
sipPROT Dashboard

The sipPROT Dashboard was added to provide a clear overview of blocked attacks, Geo-IP data and overall health status of the firewall.

The attacks per endpoint chart shows the number of attacks for each VPS on the system, or rather, their IPs that were under attack. Hovering on each bar will display the number of attacks which helps administrators see which VPS is most susceptible to them.

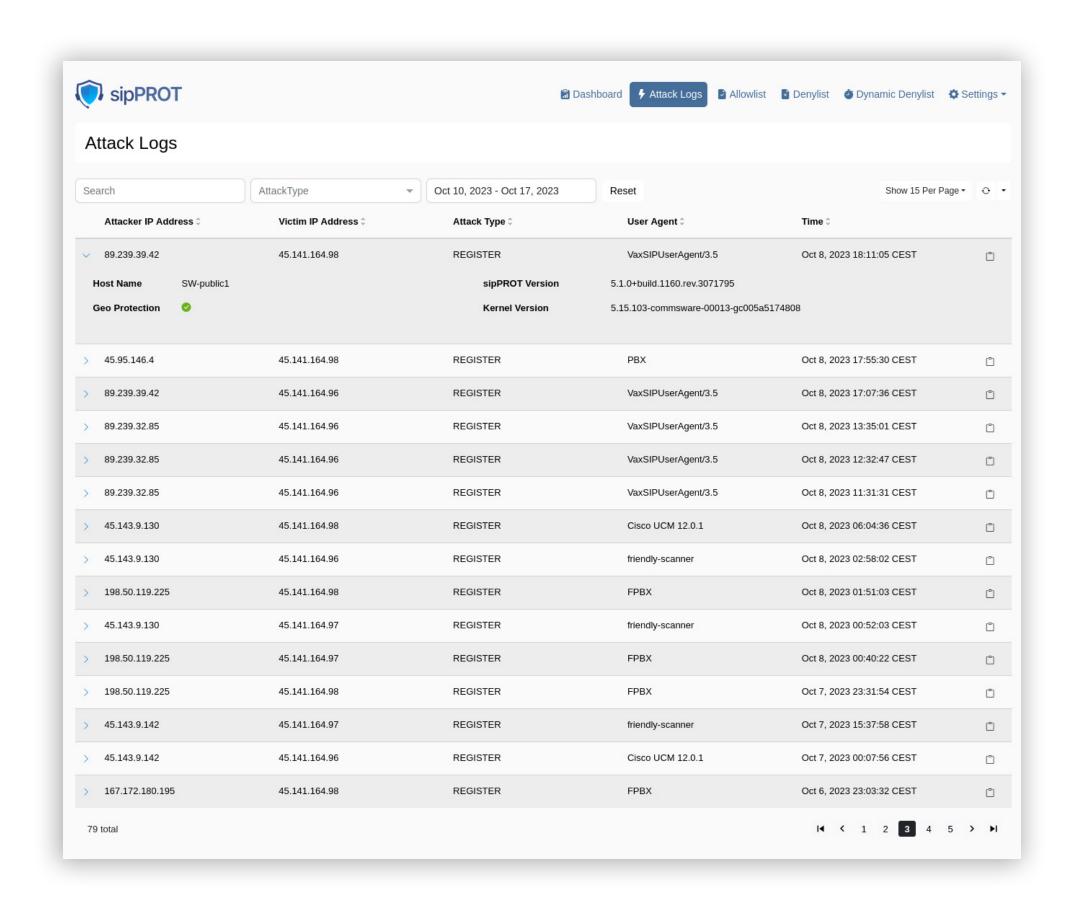
The Most Blocked Countries chart shows the number of IPs that were blocked from each country so that administrators can use the data to adjust geo-ip protection policies accordingly.

The Blocked Countries Heatmap visually illustrates the countries with the highest number of blocked IP addresses with the intensity of the color indicating the severity of IP address blocks. The darker the color, the greater the number of blocked IPs.



Attack Logs

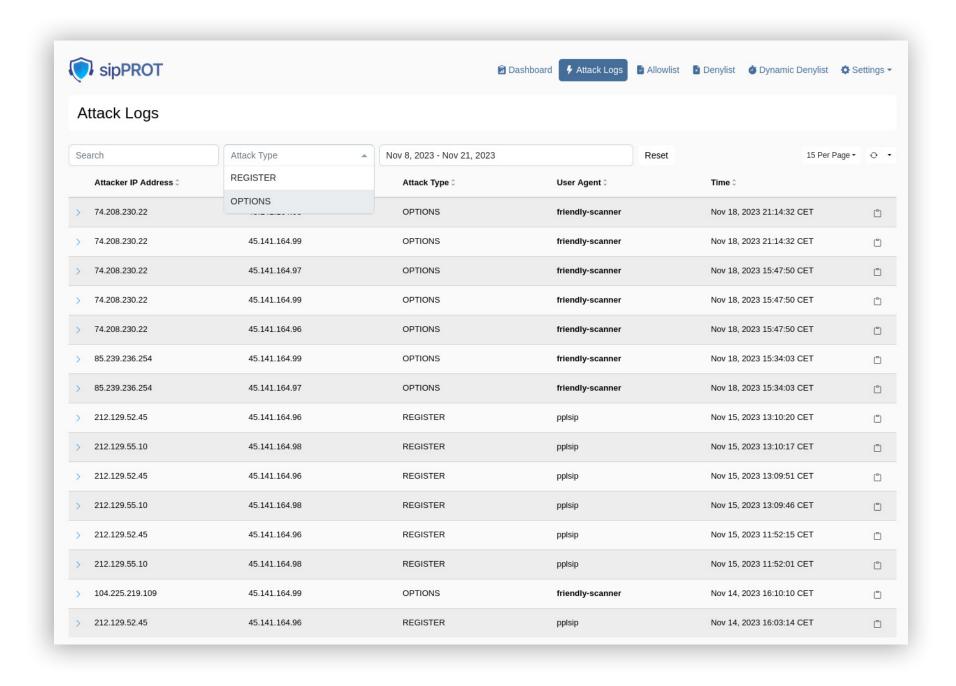
sipPROT's Attack Logs will display logs of all SIP attacks on the system with the intention to provide a better insight into the security of the entire system and allow administrators to apply additional measures if necessary.



The logs will show the attacker's and the victim's IP addresses, the attack type, the user agent and the date and time of the attack. By clicking on the symbol in front of each log, administrators can find more information, namely on which host the attack was detected, whether Geo-IP protection is available on that host and the host's sipPROT and kernel versions.

The logs can be filtered either by utilizing the search bar or by choosing the attack type to be presented from the drop down menu next to the bar.

sipPROT's attack logs will differentiate between two types of attack, REGISTER and OPTIONS.



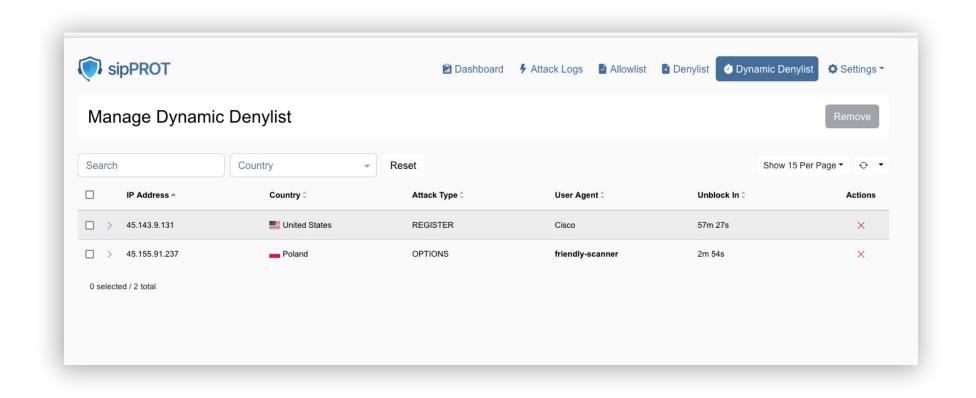
Known user agents will be singled out in bold letters on the logs. Logs are kept for three months.

IP Addresses Lists - Improved Dynamic Denylist

The dynamic denylist functionality has been further enhanced so that when an address is dynamically blocked on one host, that information is shared among all hosts within the cluster.

Addresses that end up permanently blocked through the dynamic denylist functionality (by exceeding the block threshold) will appear in the denylist.

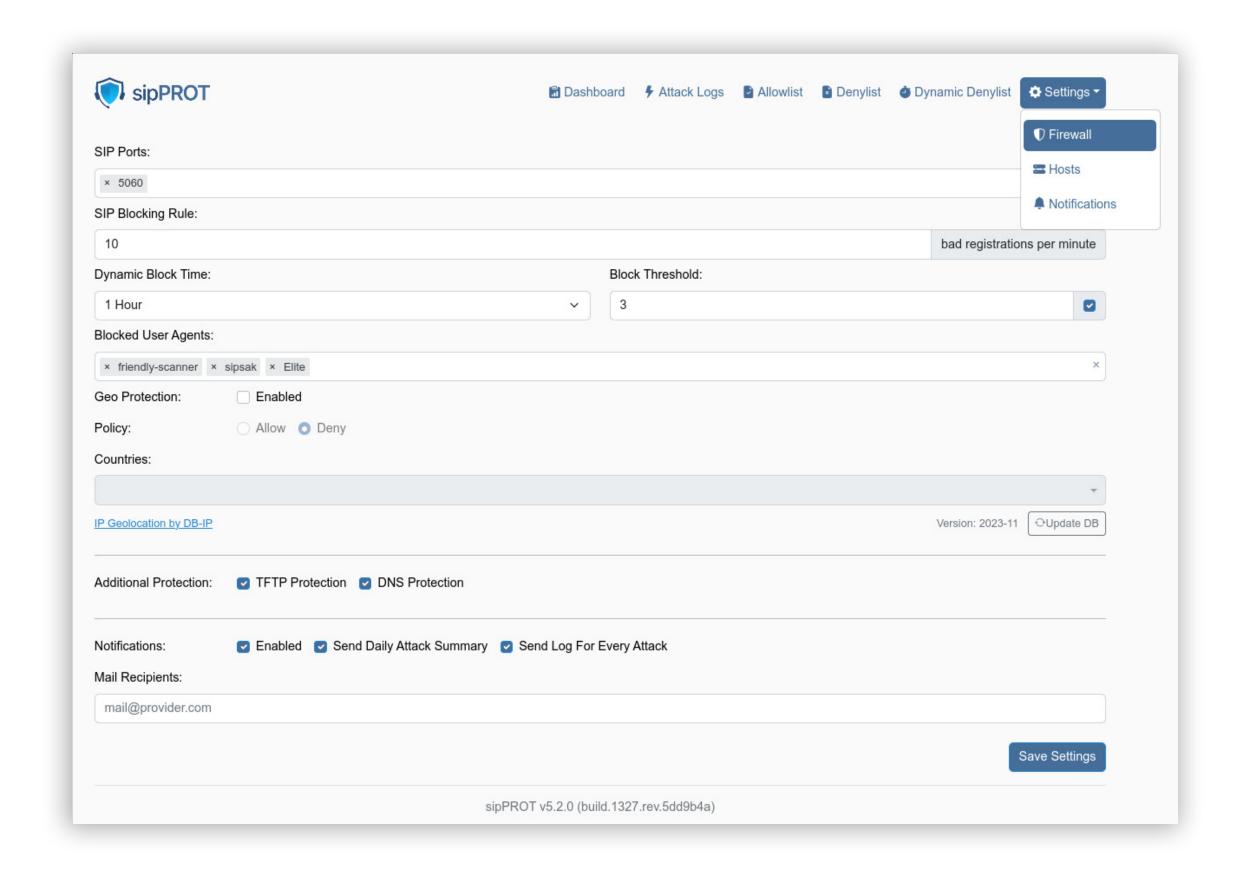
The dynamic denylist has been further enhanced so it shows the user agent device of the blocked address. If it's a known user agent device, it will appear in bold letters.



Settings

General sipPROT settings can be found under Settings → Firewall.

The Host menu provides sipPROT with information for each host in the cluster. Administrators will be able to monitor the health of sipPROT and the Geo-IP service on each host. They will be able to exclude a host from sipPROT with a single click.

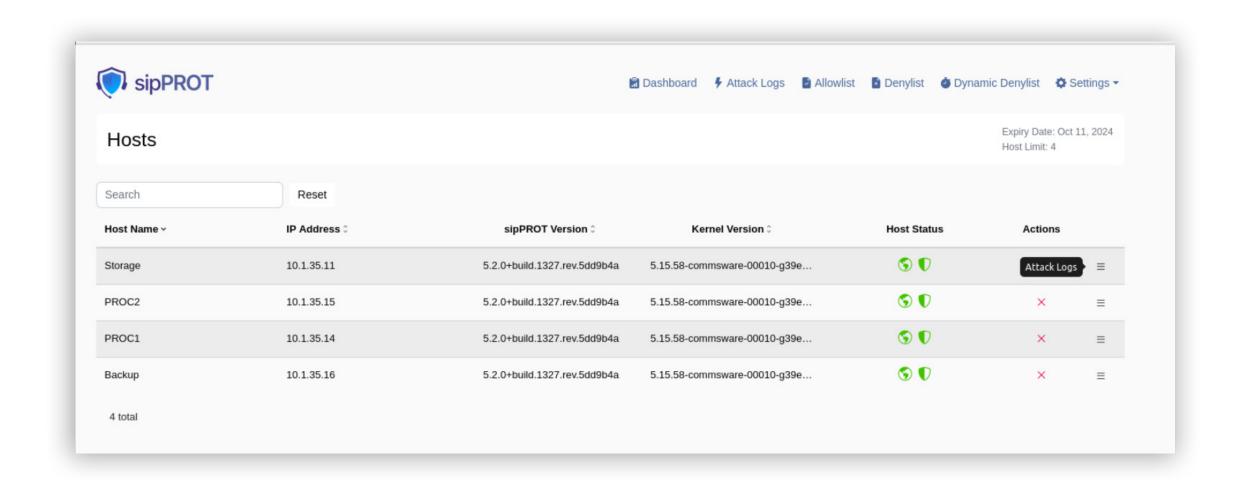


Hosts

5

sipPROT's Hosts page will provide general information on which hosts in the cluster sipPROT is running, the IP addresses, sipPROT and kernel versions of each host as well as whether geo protection is active on those hosts.

The Host page additionally holds license information, like the expiry date of sipPROT and the number of hosts allowed in the license.

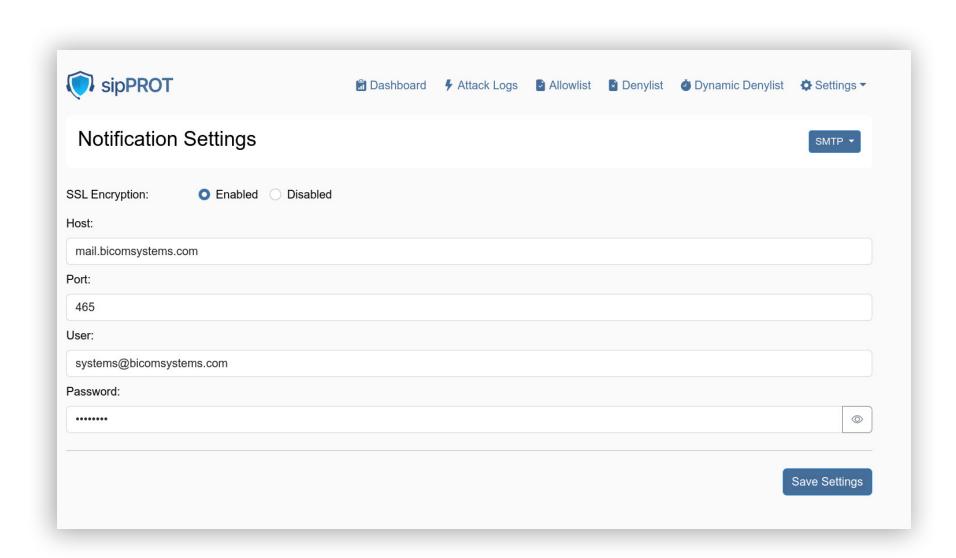


The Actions button will allow administrators to remove hosts from the list in case sipPROT is not active on those hosts. Internal services will constantly check the availability of hosts, and will mark a host inactive if there is no response within fifteen seconds.

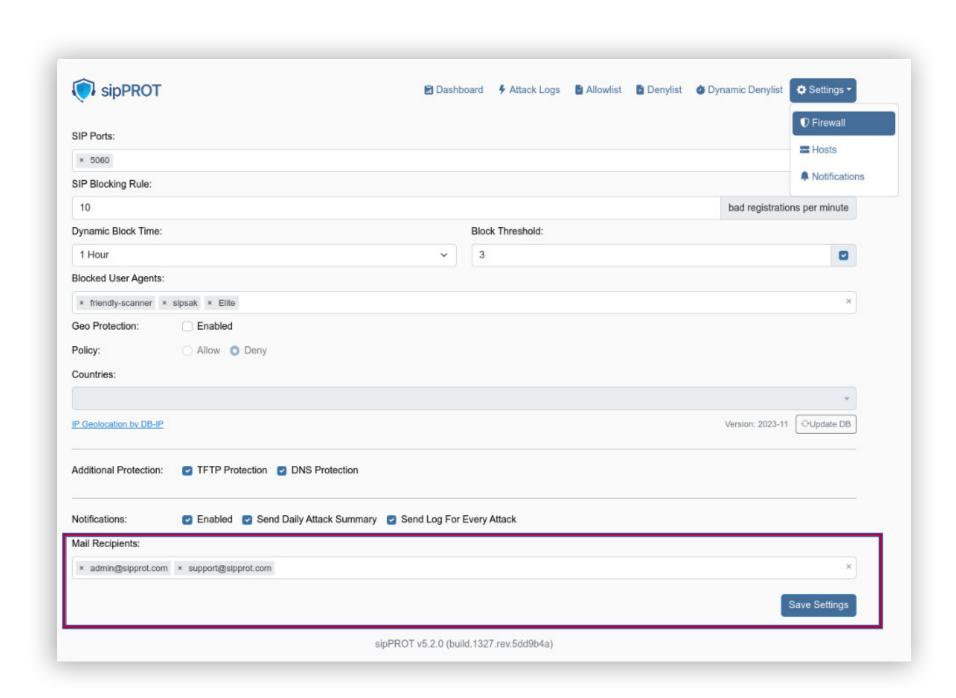
The button on the far right will redirect to attack logs.

Notifications

sipPROT administrators will be able to configure SMTP settings for notifications sent out by sipPROT.



Under Firewall settings administrators can enter the email addresses of all sipPROT notification recipients.

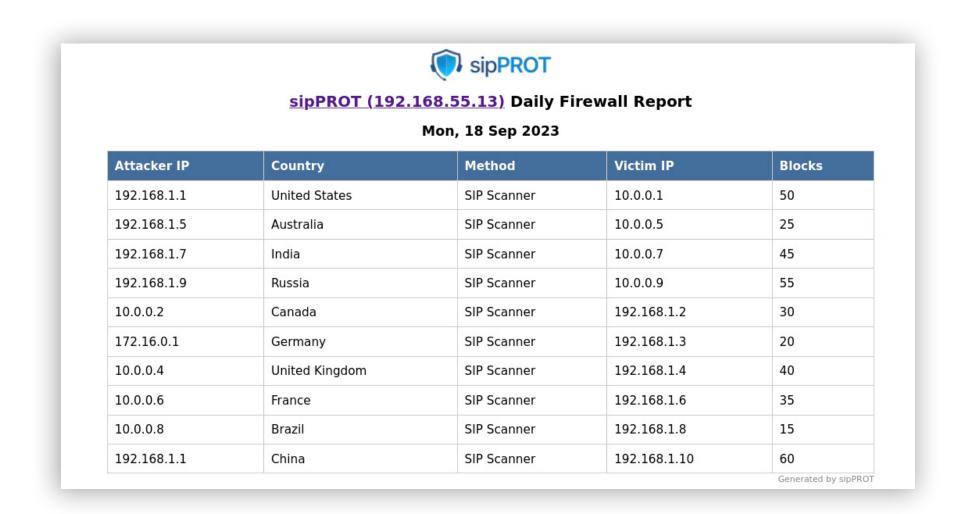


Reporting Service

Administrators can choose the type of reports they want to receive from sipPROT.



The daily reports will provide a list of blocked attacks for the day along with some additional information. The administrators can navigate to the SERVERware GUI by clicking on the link in the report.



In case no attacks occurred that day, a notification like the one below will be sent out.



In the event of an ongoing attack on the system, sipPROT will notify the administrators immediately together with the attacker's and the victim's IP addresses, method of attack, as well as what actions were taken.

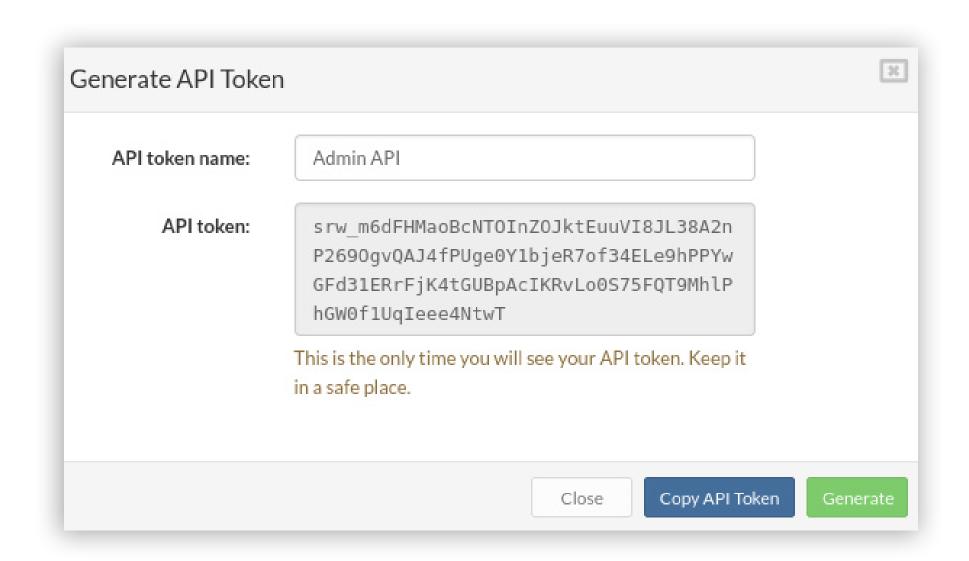


TFTP attacks will also prompt an email notification from sipPROT.

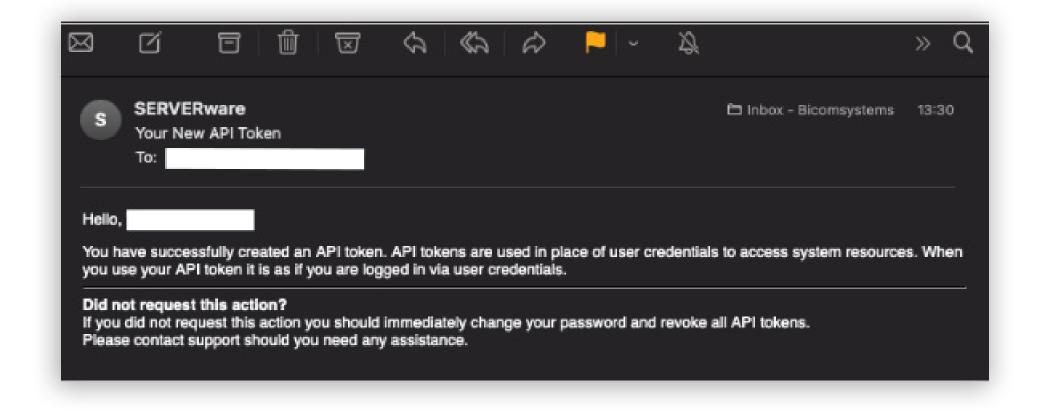


API Token Implementation

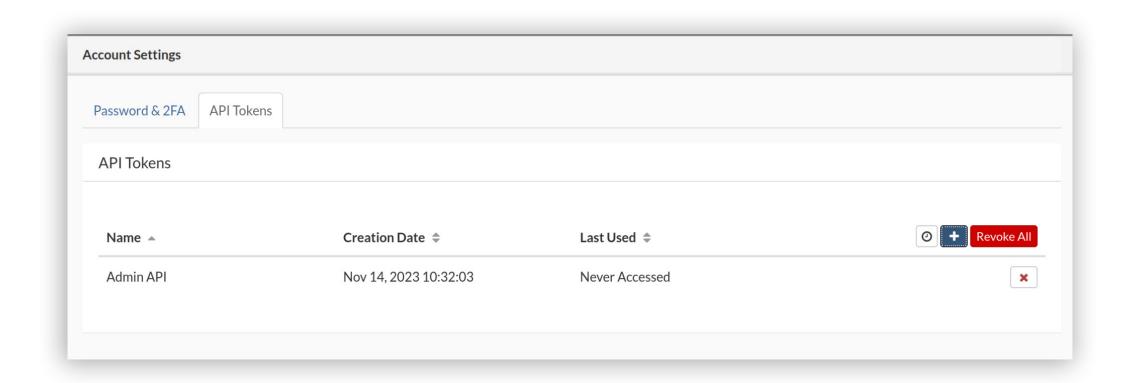
Users in SERVERware can now create API tokens that are tied to their user and will have all the user's permissions. Each user can create a maximum of 10 tokens. As a security measure, the token will only be visible upon creation.



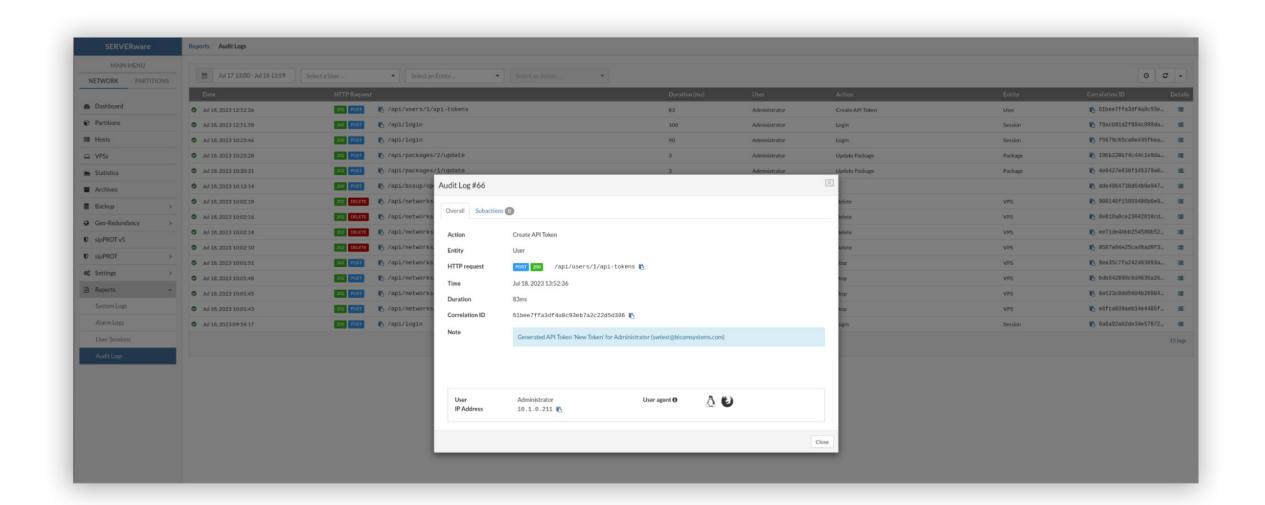
Additionally, an email notification is sent to the user who generated the token, informing them of the token along with a warning of what to do in case they were not the ones who generated the token.



The API tokens interface shows the list of all tokens, when they were created and the last time they were used. It's possible to revoke individual tokens, or to revoke them all.

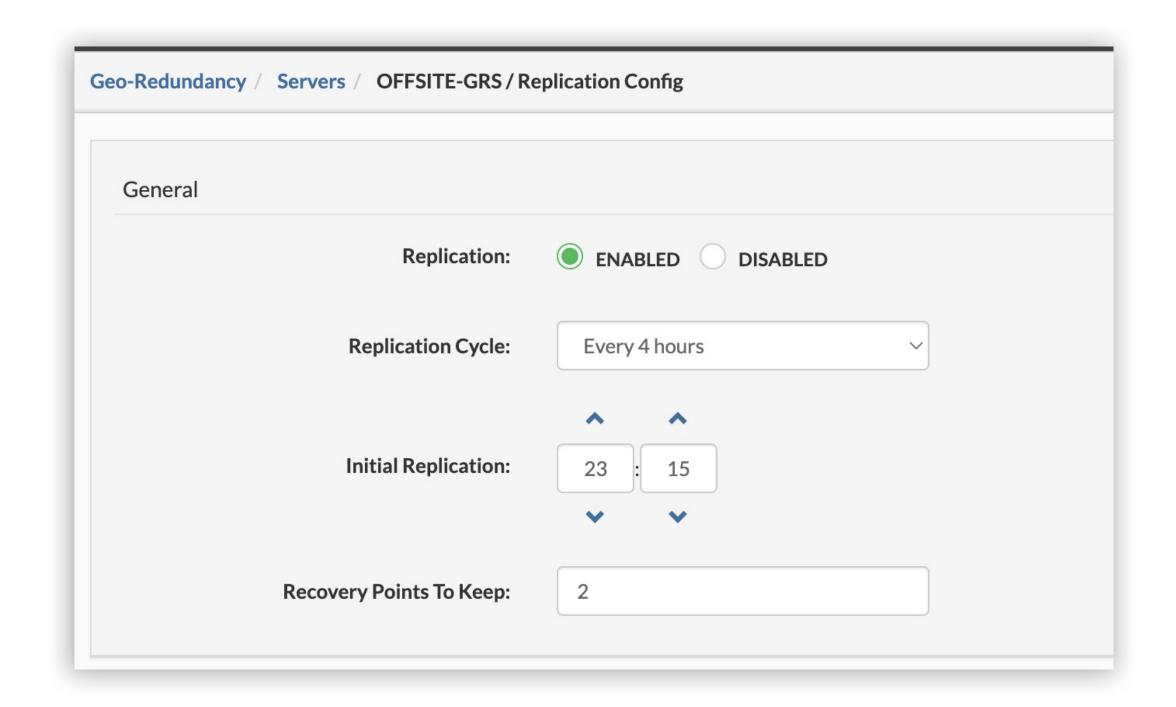


Actions executed with API tokens are documented in the Audit log, mainly POST, PUT and DELETE methods with the name and email of the user to whom the token belongs.



Set a Start Time for Replications

SERVERware administrators are now able to schedule replications on the hour. This is useful for scenarios where there are multiple replication cycles, so administrators can schedule each cycle separately to avoid unnecessary load on the network and the hosts.

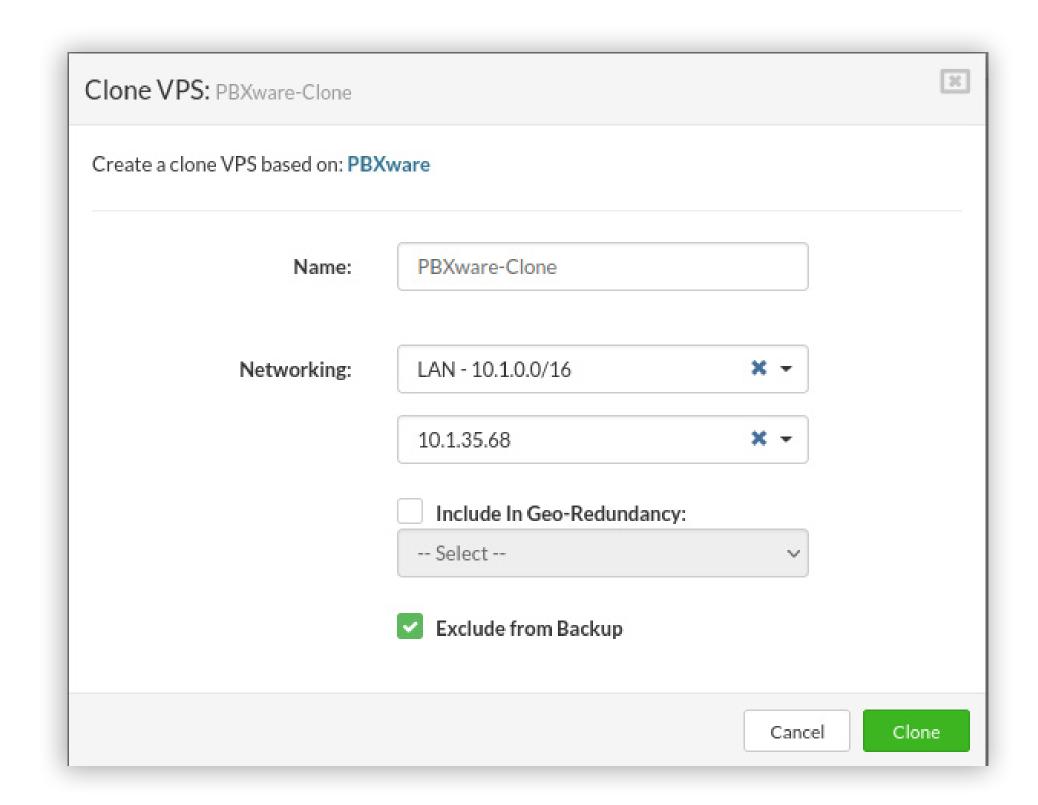


The Initial Replication defines the time the first scheduled replication job will start. The number of replications after that is defined by the replication cycle field.

Scheduling replications is only available for cycles from every two hours and up.

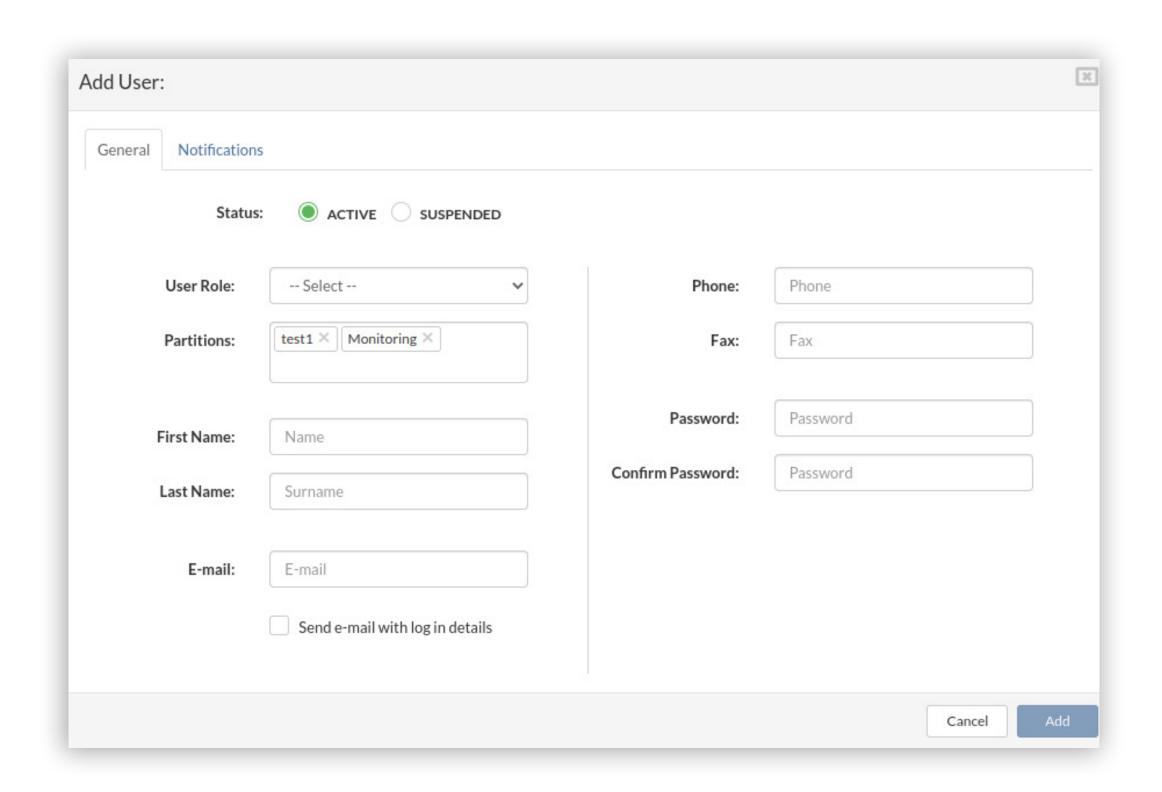
Exclude Clone from Backup in Clone VPS Popup

When cloning VPSs, administrators will be able to select whether that clone will be excluded from the next backup cycle or not, directly from the Clone VPS pop-up window.



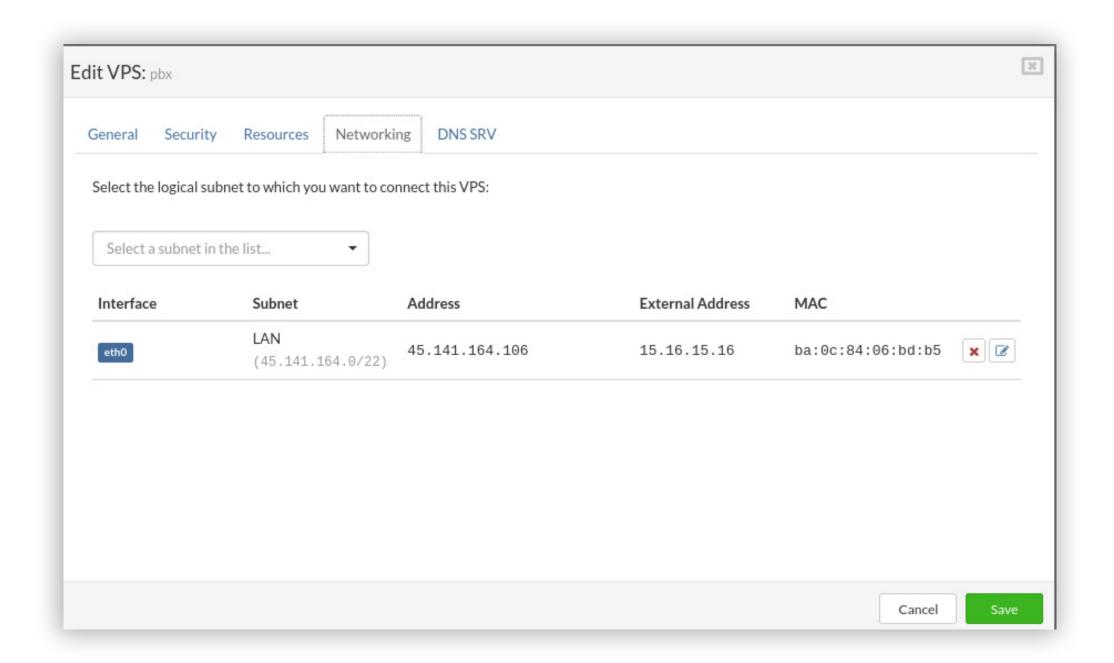
Add User to Partition Upon User Creation

SERVERware administrators will now be able to add users to partitions upon user creation. The users will be able to sign into their partition immediately.

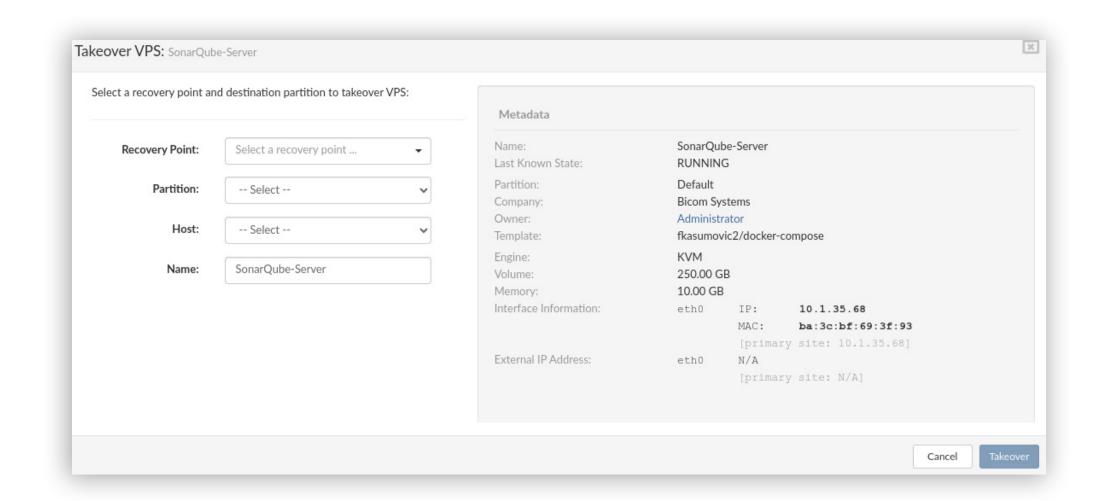


Edit VPS MAC Address through the GUI

SERVERware administrators will be able to edit the MAC addresses for VPSs through the SERVERware GUI.



The MAC address will be preserved on takeover, unless it is already in use on the cluster, in which case a new one will be generated as it worked thus far.



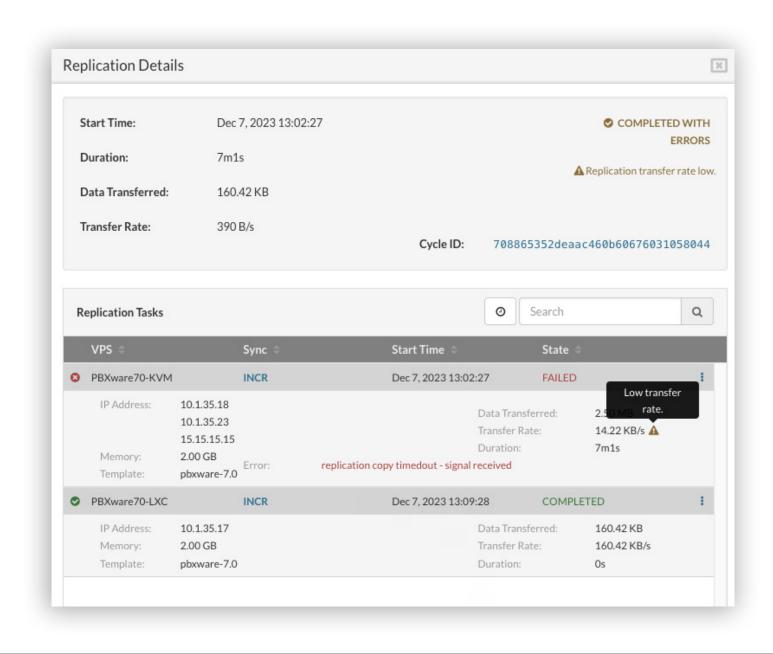
Ability to Refresh the SERVERware License through the Controller CLI

CLI users will be able to refresh the SERVERware license through the Controller command line interface. update-license will send a request to the licensing server through the sw-wcp service. The command can also be used to replace the SERVERware license by sending the new license as an argument of the command.

```
CONTROLLER / # update-license
 * Applying license on sw-wcp ...
 * Reloading license on sw-mgr ...
CONTROLLER / # update-license D14D7D0E
 * Applying license on sw-wcp ...
 * Reloading license on sw-mgr ...
CONTROLLER / #
```

Added a Warning for Insufficient Bandwidth for Replications

In case the network speed is too low for successful replications, a warning will be displayed notifying the administrator while the replication is in progress. Once the replication is completed, the notification will also appear on the Replication Details side panel. The warning will be triggered in case the transfer rate is less than 25 Mbps.



Bug Fixes & Improvements:

- BSSUP default port changed to 2244.
- Removed the Archive Service from the License tab.
- Removed PBXware v4 and v5 from the Templates catalog.
- When using 2FA, for each code, the associated user's email will be provided for authentication.
- Modified syslog to use reopen instead of reload to reopen files after rotation.
- Extended VPS stop action from 15 seconds to 60 seconds to prevent database corruption.
- Added a virtualization check that will display a warning in the GUI in case hardwareassisted virtualization is not active on the host (disabling KVM engine for VPSs).
- Fixed a bug where sipPROT would block the country that the IP was accessing from.
- Fixed a bug where the install wizard exits from the install menu when selecting the wrong installation type.
- Fixed a bug where the resource view on the edit VPS window does not show VPS storage info.
- Fixed a bug where adding a backup job would cause traceback exception errors in the CLI.
- Fixed a bug where the VPS List View gets broken during and after VPS rename/move actions
- Fixed a bug in the UI where a list of VPS backups was not refreshed when switching Backup datasets.
- Fixed a bug where a missing URL in the config file would cause the BI reporting to throw an error out.
- Fixed a bug where processing commands through SAGA would periodically produce unpredictable outcomes.
- Fixed a bug where Ixc-stop did not gracefully shutdown VPSs on the PBXware v7 template.
- Added a fix that enables local DNS caching in SERVERware.

- Fixed a bug that caused the VPS cloning action to time out during heavy IO load on the system.
- Fixed a bug where Redis failed to start on storage failover.
- Fixed a bug where VPS creation from an OCI image fails to reset the default password.
- Fixed a bug where resuming a replication failed due to a snapshot mismatch.
- Fixed a bug where KVMs (Firecracker) were not running on AMD CPUs.
- Fixed a bug where KVM VPSs connected to the network with the wrong MAC address.
- Updated EULA.
- Changed the logout icon.
- Fixed a bug where sw-connector logged exception errors when collecting top 5 processes during high CPU usage.

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