



RELEASE NOTES

SERVERware 4.3

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1. OCI Images support

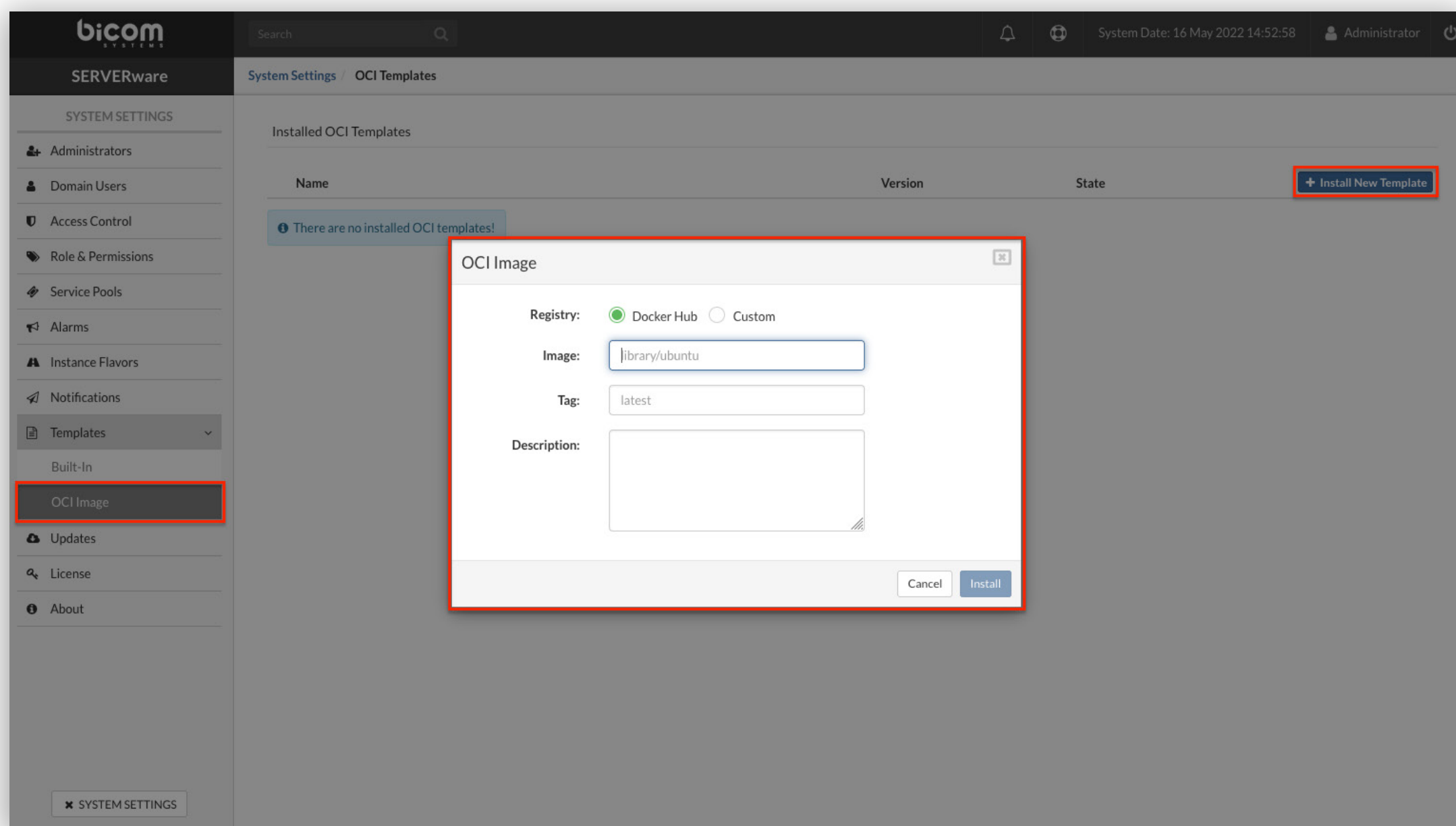
Support for fetching from the OCI registries and creating a SERVERware template from the OCI image format.

This service will enable our partners to create a system, service, or application templates on their own from OCI image repositories such as Docker Hub.

With Bicom Systems OCI Images support, customers will not be limited with built-in templates. Instead, they will have options to choose and download desired images from the OCI image repository.

Therefore when creating a new VPS, customers can choose between built-in templates provided by Bicom Systems and OCI image templates (created by customers).

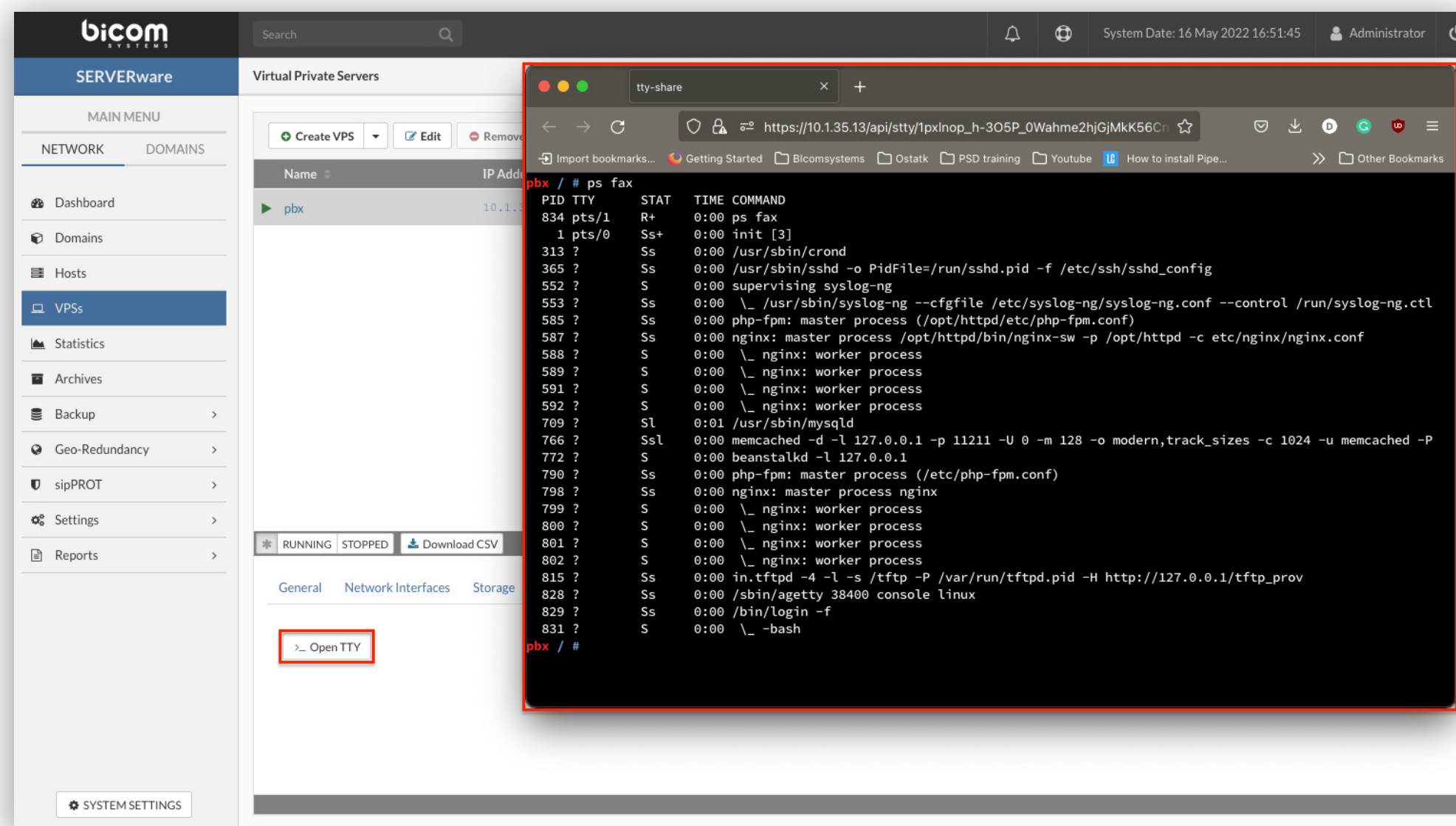
Downloading and running the OCI template was never easier.



Bicom Systems does not maintain the content of the container.

2. Ability to access VPS console from SERVERware GUI

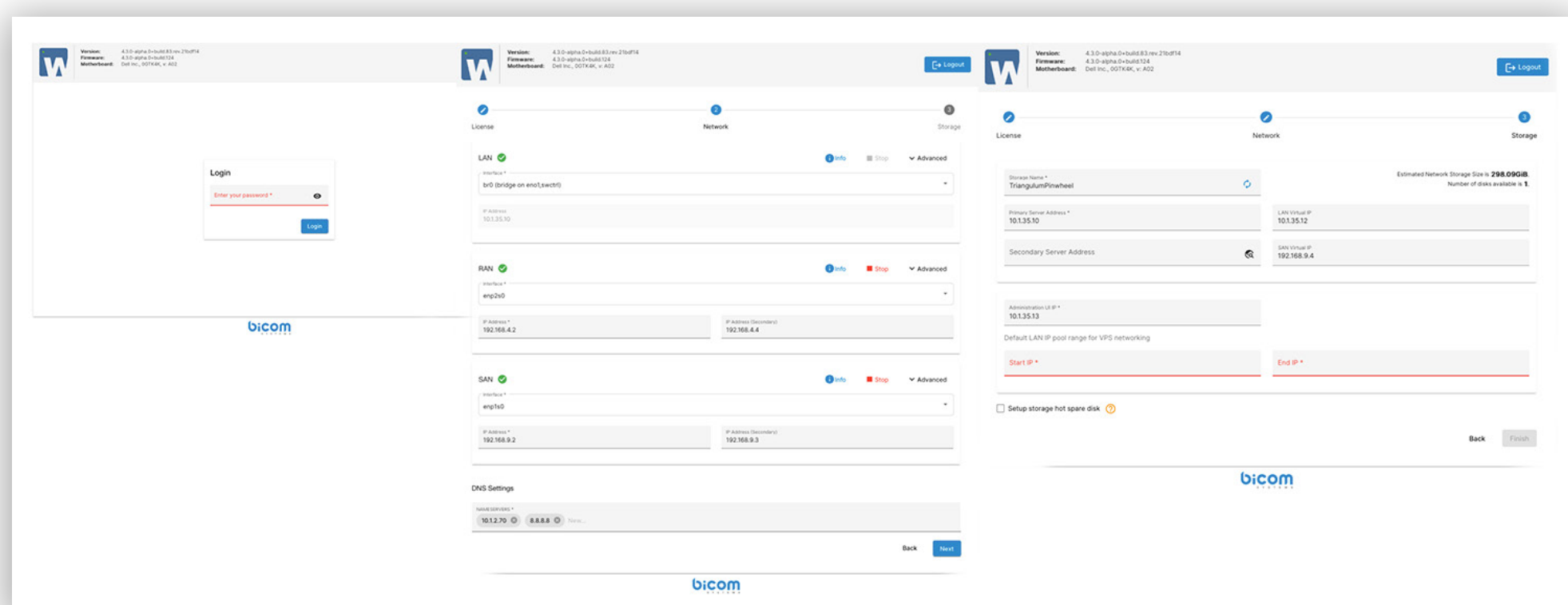
The news from the SERVERware just got better, the new **TTY** session button in the GUI for quick access directly to the VPS console. In case of misconfigured ssh, custom templates without an ssh client or for any other reason ssh might be inaccessible. **TTY session** will provide easy access for troubleshooting. This is the internal SERVERware service, so it does not depend on the status of services in the VPS.



With a single click of the mouse, a new **TTY session** will be open in the separate browser tab with secure access to the VPS console.

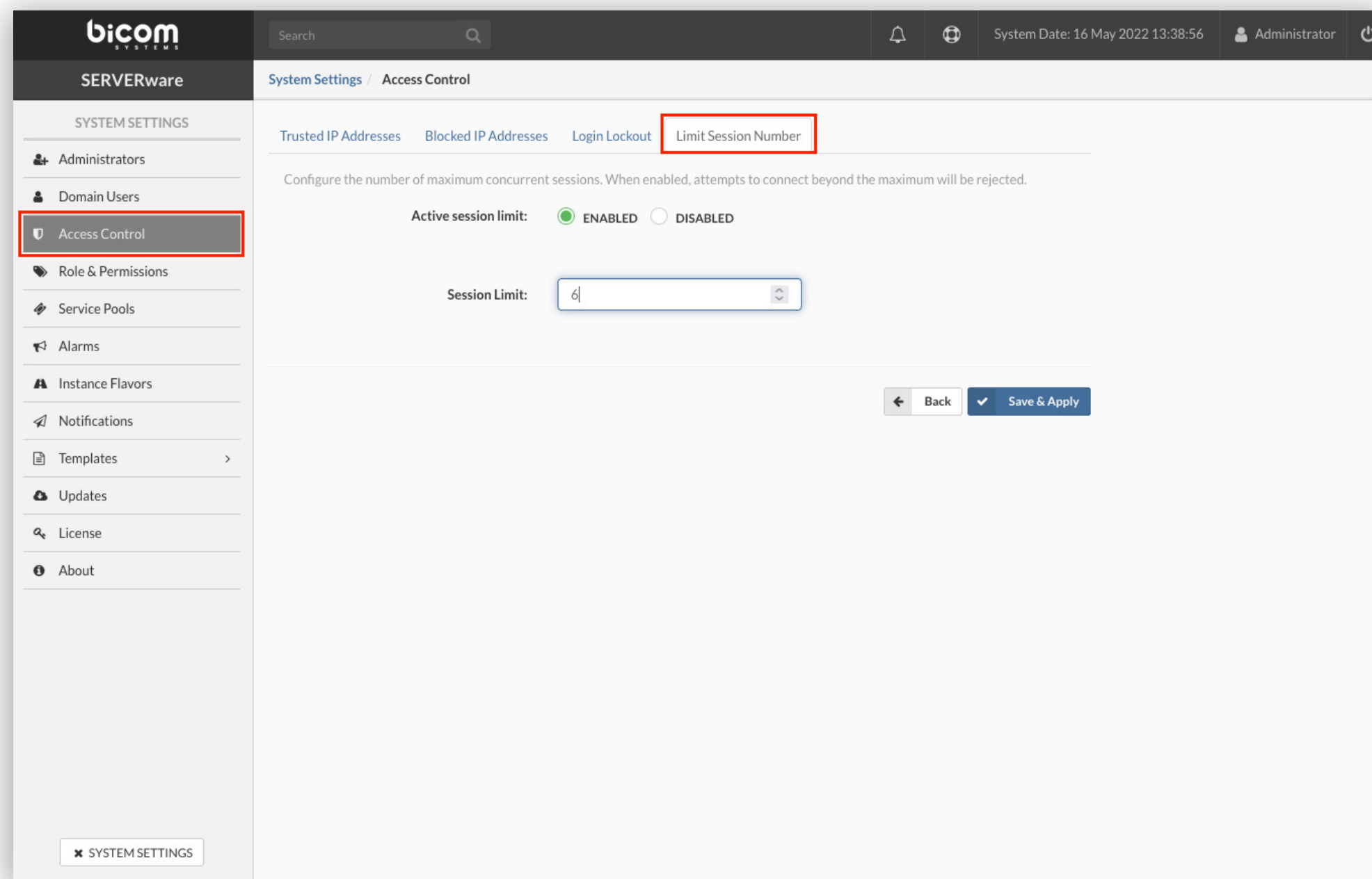
3. New SERVERware Setup Wizard GUI

As a part of our future goals of SERVERware, we have a redesigned setup wizard, new technology, more responsive, GREAT looking with the same simple steps to finish the setup in no time. The best description is to take a look.



4. Limited number of active GUI sessions per user

The number of active sessions is now limited to prevent idle sessions from filling the logs and improve security. To use this feature, it has to be enabled in the system settings. There is an option to enter the number of maximum connections manually.



5. Timestamp in bash history on CONTROLLER

From time to time, there is a need for some date and time in the history log, especially when debugging the problems. The **CONTROLLER** in SERVERware 4.3 has a precise date and time for the commands executed in the console. So the Administrator can relax and enjoy the latest data.

```
CONTROLLER / # history
1 [ 2022-05-16 16:52:36 ] cat /var/log/messages
2 [ 2022-05-16 16:52:53 ] /etc/init.d/sw-wcp status
3 [ 2022-05-16 16:53:03 ] wg show
4 [ 2022-05-16 16:53:27 ] /opt/sw-wcp/bin/sw-wcp -V
5 [ 2022-05-16 16:53:53 ] ps fax
6 [ 2022-05-16 16:53:58 ] history
7 [ 2022-05-16 13:26:42 ] cat /var/log/messages
8 [ 2022-05-16 13:26:45 ] cat /var/log/messages
9 [ 2022-05-16 13:26:47 ] cat /var/log/messages
10 [ 2022-05-16 13:26:53 ] /etc/init.d/sw-wcp status
```

6. Support for DNS zone transfer

As the newest addition to DNS Zones in SERVERware 4.3, we added “**zone transfer**” for an even easier DNS configuration in the case of multiple sites and Geo redundancy.

DNS zones of the primary and secondary sites will resolve the same **A** and **AAAA** records. This way, **DNS** redundancy for the SERVERware zone is assured. Also, moving VPS from one location to another will not confuse the clients.

The screenshot shows the 'Add DNS Zone' dialog box with the 'Type' dropdown set to 'Primary'. The 'Name' field contains 'cloud-x.your-company.com', 'Domain' is '(All Domains)', 'Port' is '53', and 'TTL' is '5'. The 'Zone Replication Details' section on the right has 'Transfer From' and 'Transfer To (ACL)' fields, both of which are empty. The 'Add' button is highlighted in green.

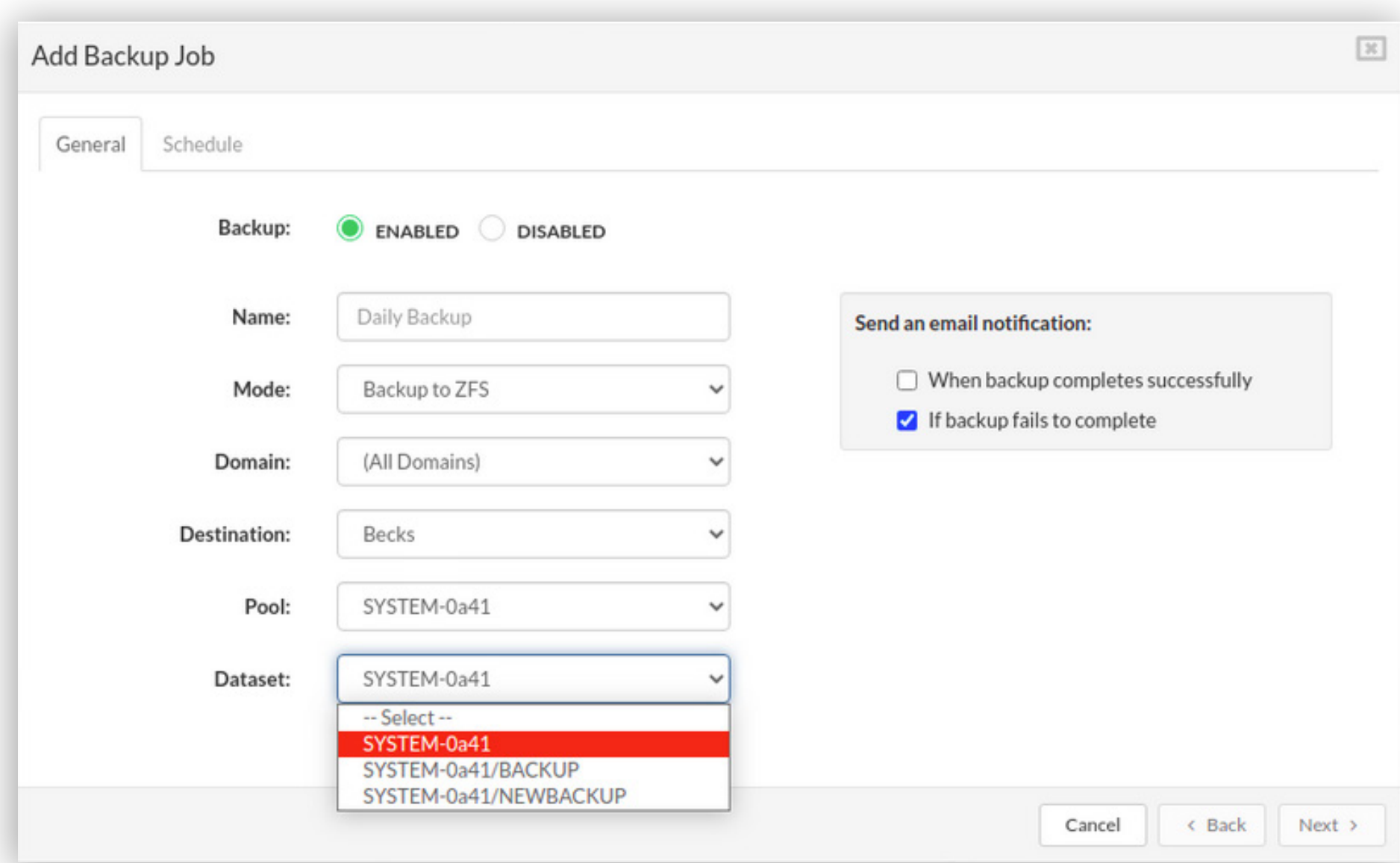
The screenshot shows the 'Add DNS Zone' dialog box with the 'Type' dropdown set to 'Secondary'. The 'Name' field contains 'cloud-x.your-company.com', 'Domain' is '(All Domains)', 'Port' is '53', and 'TTL' is '5'. The 'Zone Replication Details' section on the right has 'Transfer From' and 'Transfer To (ACL)' fields, both of which are empty. The 'Add' button is highlighted in green.

7. Core DNS redirection to Syslog

To avoid unusable logs, all logs regarding DNS service in SERVERware are now moved to the separate file in “**/var/log/dns**”. This makes filtering the logs easier and less mixing with the rest of the logs.

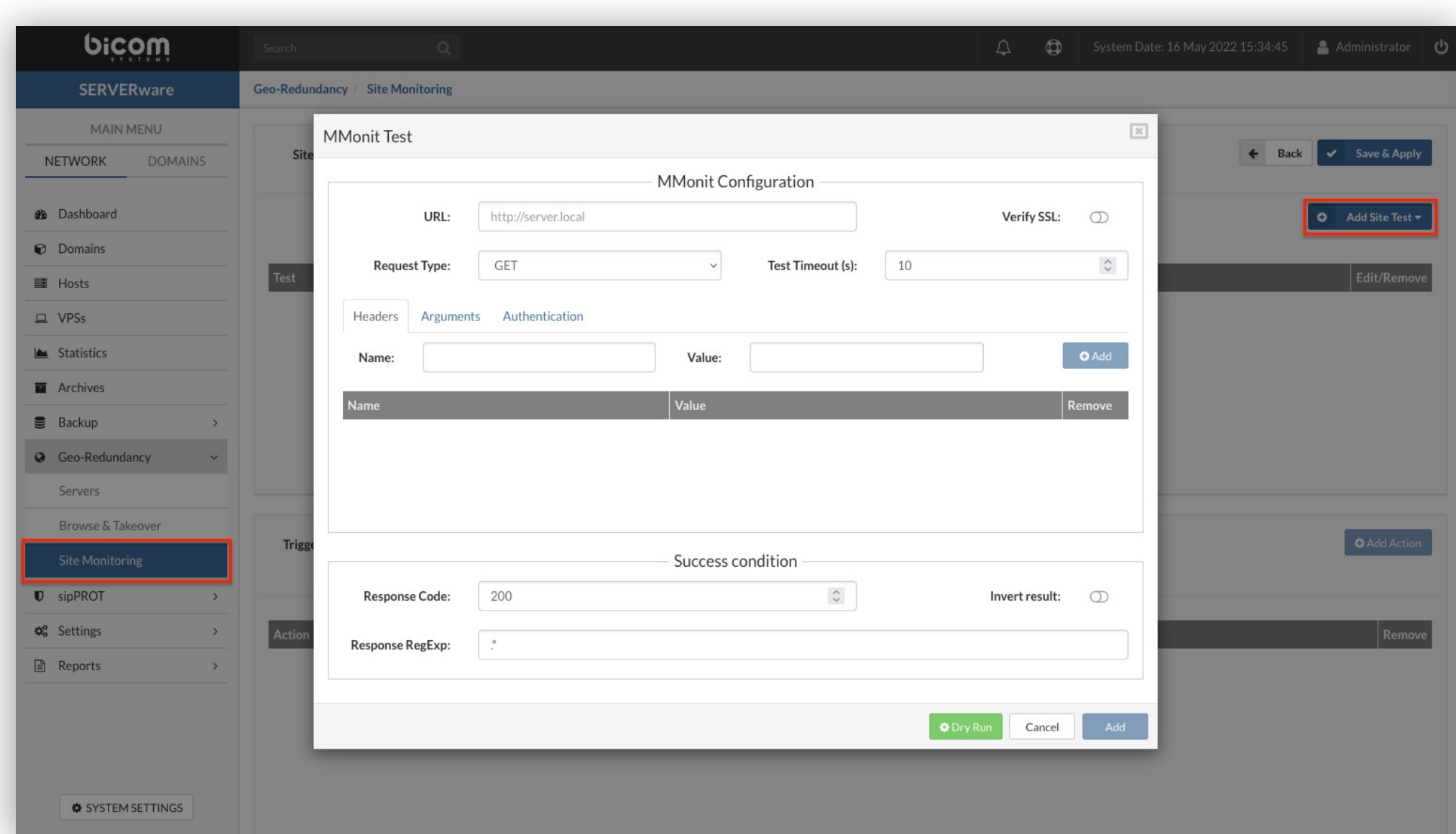
8. Option to specify datasets for backup

When setting backup tasks, the pool is provided in one dropdown list as before, and now datasets dropdown is provided. When a pool is selected, backup datasets of that pool and root dataset are loaded in the dataset dropdown.



9. Site monitor now supports “MMONIT” integration

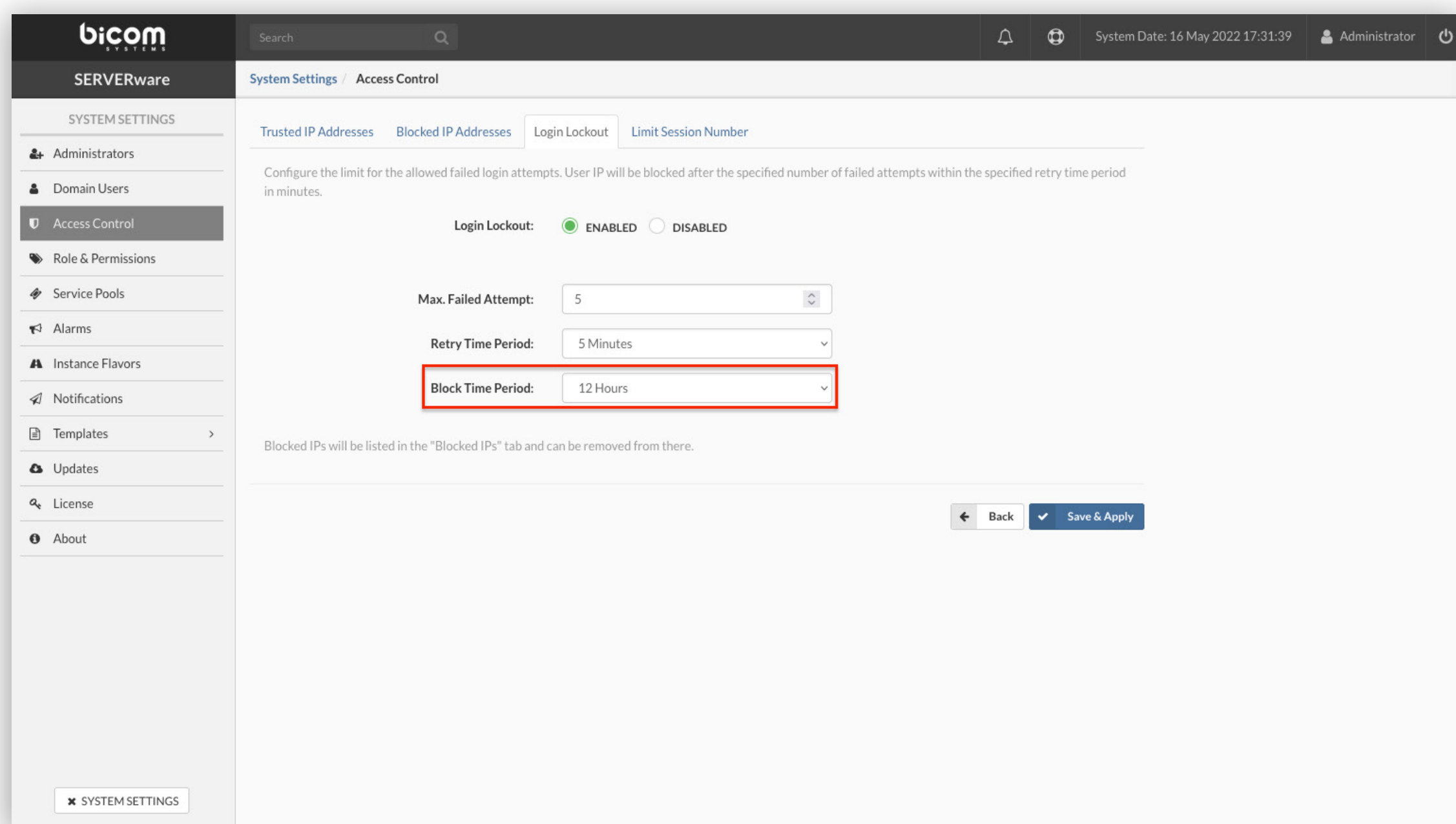
A New MMonit option in the ‘Add Site Test’ dropdown list is added for easier setup of SERVERware Site monitoring with the third part monitoring tool “MMONIT”. It’s easy, and it’s a click away.



10. SERVERware Access Control feature - lease time for blocked addresses

Access control is the access management feature for SERVERware Administration. This menu has options for managing Blocked IP, Allowed IP, and configuration of the automatic lockout after failed login attempts.

In addition to this feature, we have one more option in GUI, “**Block Time, Period**” as a configurable period. After this period, the blocked account will be removed from the “**Blocked IPs**”.



11. “sw-wcp” argument for printing service version

“**sw-wcp**” service in the SERVERware CONTROLLER now has a version number print option with the simple argument “**-V**”.

12. Virtual networks do not require a LAN interface inside a VPS

We have brought the virtual networking feature to a level up and made it work even without requiring a LAN interface inside a VPS. This means we can create a virtual network to be used for internal communication between app components running on different VPSs, and **we do not need to spend LAN IP addresses** for this.

13. Removed logs from the domain admin's recent activity

Domain admin can see administrator actions only if they are related to VPSs in his domain. System logs are removed from the domain admin's recent activity.

14. Option for “soft” reboot after host upgrade

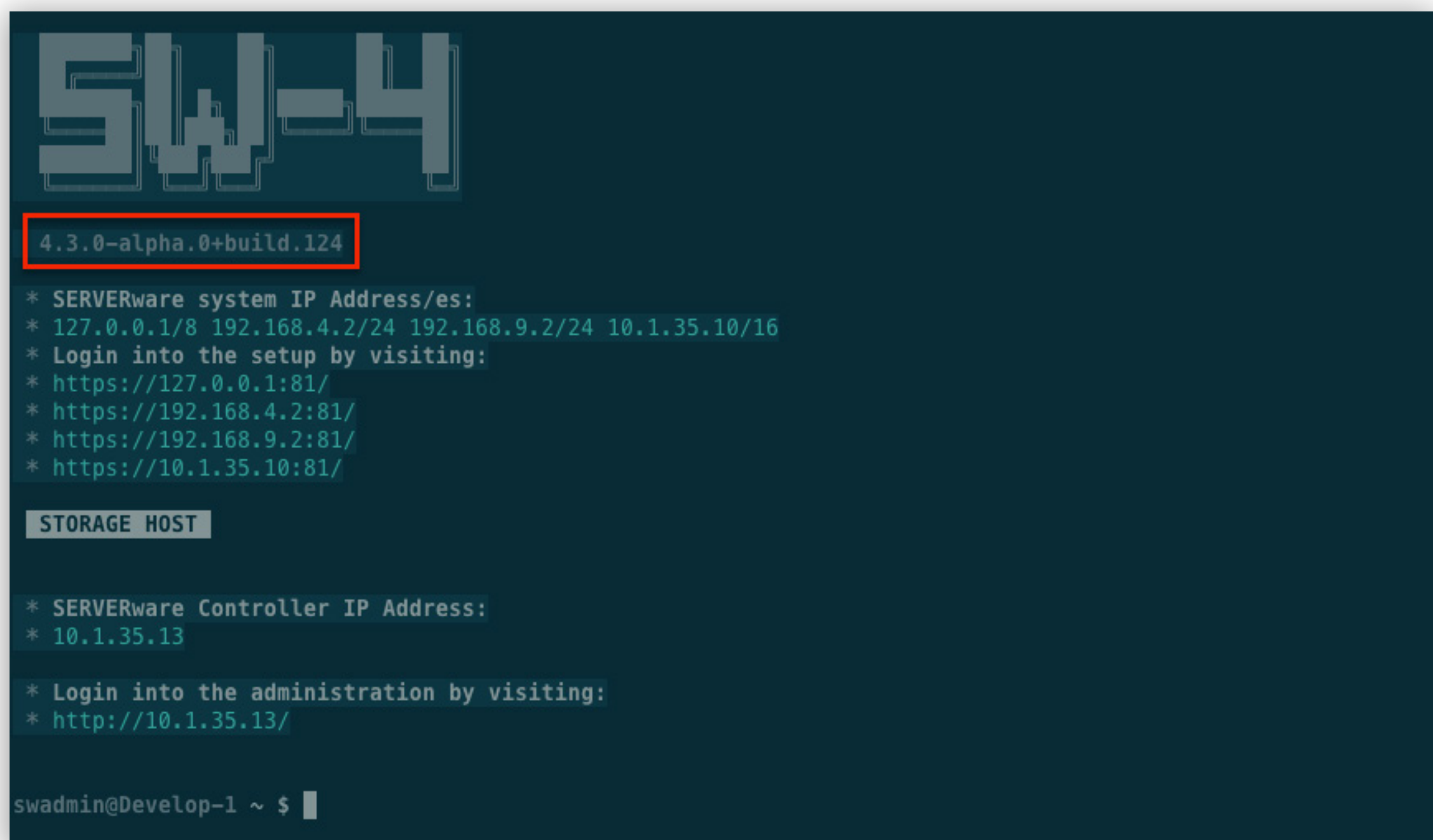
The core system upgrade script is updated to detect the HOST purpose (**STORAGE**, **BACKUP**, or **PROCESSING**) and act accordingly when the user confirms the restart.

STORAGE HOST will shut down gracefully to avoid data loss.

PROCESSING AND BACKUP HOST will shut down hard (forced) so this transaction finishes as quickly as possible.

15. SERVERware version in MOTD

The SERVERware version is now displayed in MOTD (login screen info) when we ssh to the server.



```
SW-4
4.3.0-alpha.0+build.124
* SERVERware system IP Address/es:
* 127.0.0.1/8 192.168.4.2/24 192.168.9.2/24 10.1.35.10/16
* Login into the setup by visiting:
* https://127.0.0.1:81/
* https://192.168.4.2:81/
* https://192.168.9.2:81/
* https://10.1.35.10:81/
STORAGE HOST
* SERVERware Controller IP Address:
* 10.1.35.13
* Login into the administration by visiting:
* http://10.1.35.13/
swadmin@Develop-1 ~ $
```

16. Collect custom ssh configuration files into .setup.bak

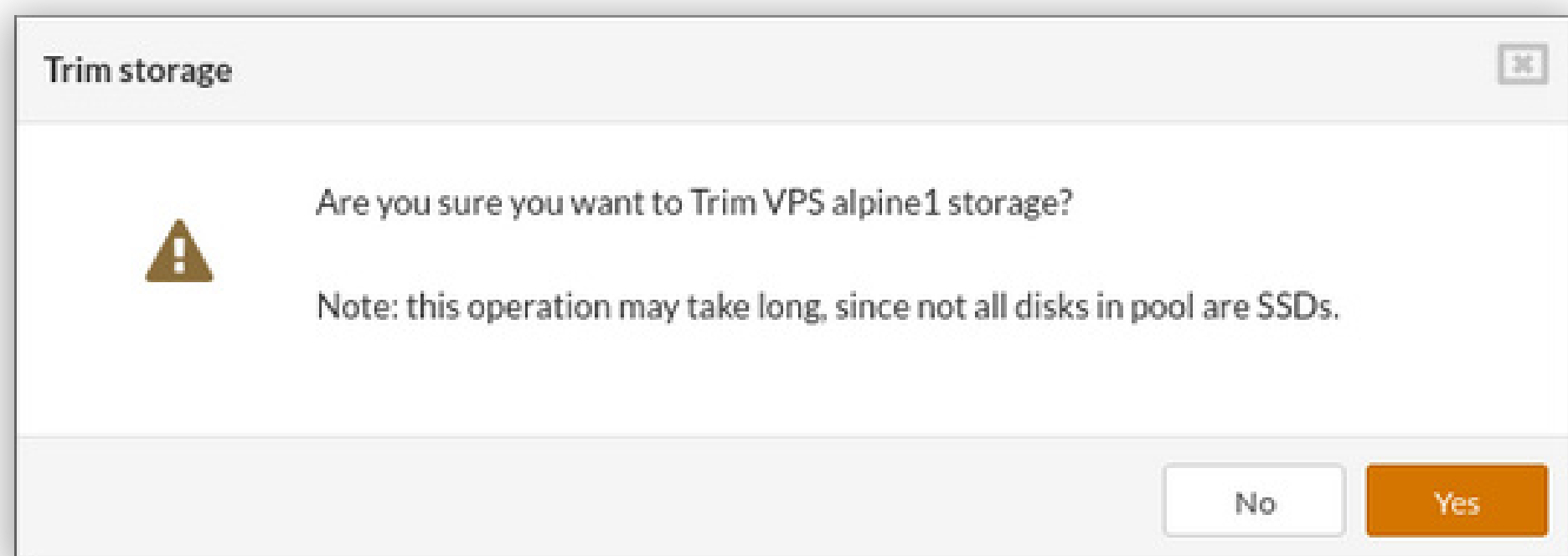
To ensure that when recovering from .setup.bak (after an OS reinstall) ssh configuration files are also restored so that users have the same access and configuration as before the reinstall.

17. Show IO activity on VPS storage trim

The IO activity indicator now displays activity while VPS trim is in progress. This will notify Admins not to overload storage with additional tasks.

18. Warning if storage devices are (HDD/Rotational) when doing FSTRIM

The Administrators need to get informed that this operation might take longer than expected due to the rotational devices in the pool.



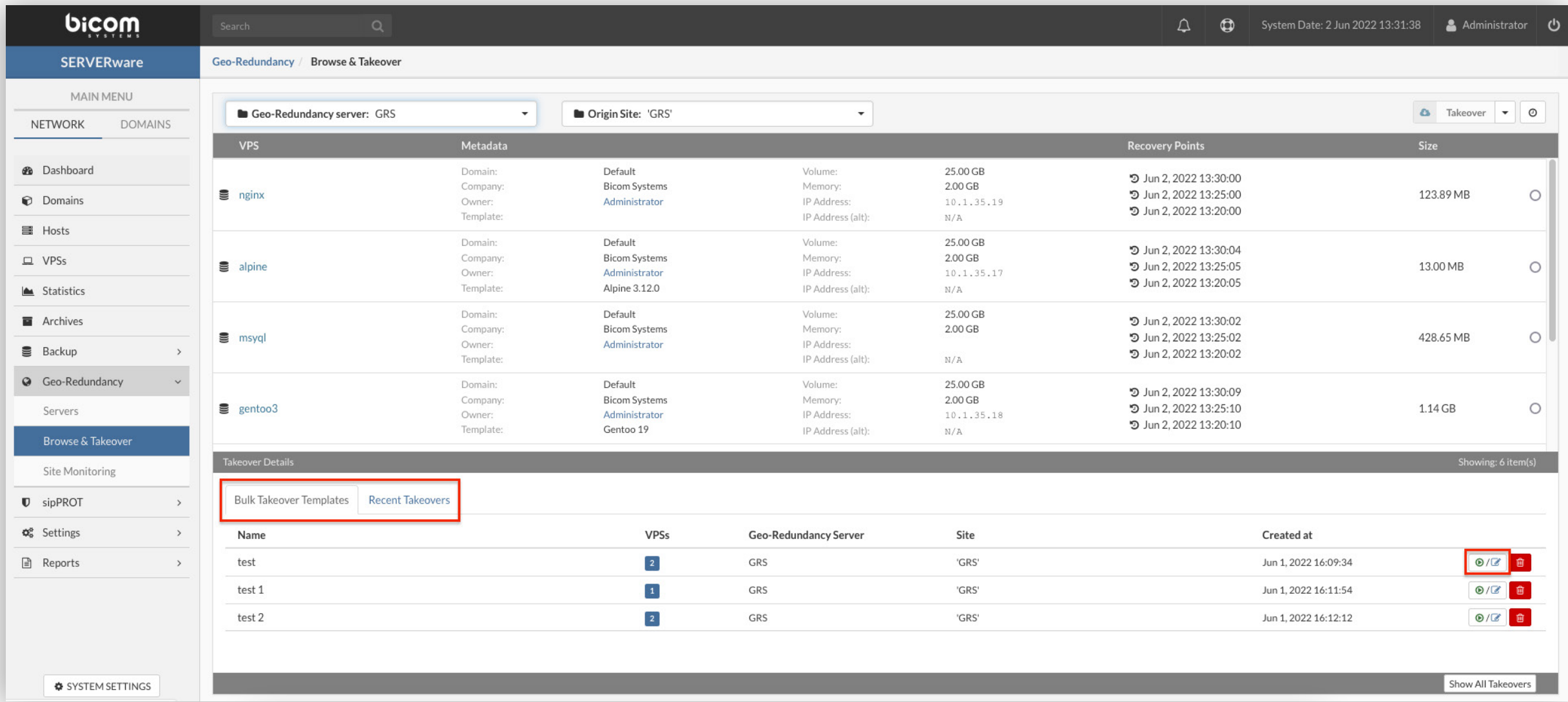
19. VPS storage trimming, cancel button

VPS trim **cancel** option is added because on slow storage trim operation can take longer than expected. The trim button on the VPS Storage info panel will change to Cancel while trimming is in progress.

Click on the ‘Cancel’ button will stop trim in progress and attach the VPS volume.

20. Geo-Redundancy“Bulk Takeover Templates”redesign

For a better user experience, we have decided to reorganize the Geo-Redundancy bulk takeover page by exposing the “**Bulk Takeover Templates**” list in the primary visible tab. Hence, it is accessible for the Administrator to act quickly if necessary. Also, a new button, “START/EDIT”, is available next to every template listed.



Bug Fixes:

1. Fixed - When SERVERware user is suspended, and users are trying to login in SERVERware GUI, the action fails with the wrong message: "Internal Server Error" instead of "User Account Suspended".
2. Fixed - When trying to update sw-wcp through GUI it gets stuck but in the backend.
3. Added - a "Successful" message in Archiving form when reapplying the form with identical credentials.
4. Fixed - DNS Zones problem where the validation of the IP addresses in the "from" and "to" fields is applied only to the first address.
5. Fixed - BAS: changing the user's password doesn't reload it immediately.
6. Fixed - The value of the metric that triggers the alarm was not rounded to two decimal places.
7. Added - Cleanup for "sw_saga_logs" older than seven days.
8. Fixed - DNS record requests from the public internet to the outside of DNS zones SERVERware is authoritative for were not blocked.
9. Removed - When there are no configured replications, the backend returns 404, spamming Syslog and GUI with errors.
10. Fixed - Adding another backup job with the same frequency e.g.
11. Fixed - Adding backup job - error handling
12. Fixed - BAS error messages were confusing if there is no BAS enabled on the server.
13. Fixed - Archiving service, constantly trying to connect to the server if enabled in the license.
14. Added - Network editing dialogue in GUI, added a warning when the wrong format of IP is entered in the gateway.
15. Fixed - In the upgrade procedure of database table sw_triggered_alarms(_archive) has no check if a column already exists. It results in unneeded errors in the log if the upgrade procedure starts executing.
16. Fixed - Changing IP addresses on SERVERware builds was complicated due to the inability to change the host's IP address as it does not consider the new IP address as a part of a management network, although the same has been defined within a new subnet.

17. Fixed - After successfully creating the IPV6 Virtual Network, one can not edit the gateway in the edit dialogue.
18. Fixed - GRS metadata was missing for DNS SRV.
19. Fixed - When backup restore fails, an error message is too long and contains unnecessary info.
20. Fixed - An updated sw-connector fails to process a response from an older version of the swhspace service since it is asking for a property that is not available in an older version of the swhspace response.
21. Fixed - Changed, Syslog used reload instead of restart.
22. Fixed - Using API to add the VPS in any domain or any host/storage server was available with no restrictions.
23. Fixed - GUI not available if the CONTROLLER cannot reach the downloads server.
24. Fixed - When Active, the Site monitor will send logs in every minute (or Schedule time); this would spam system logs to an unusable state.

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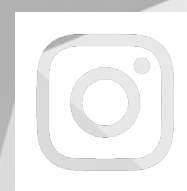
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