RELEASE NOTES

SERVERware 4.5

bicom SYSTEMS

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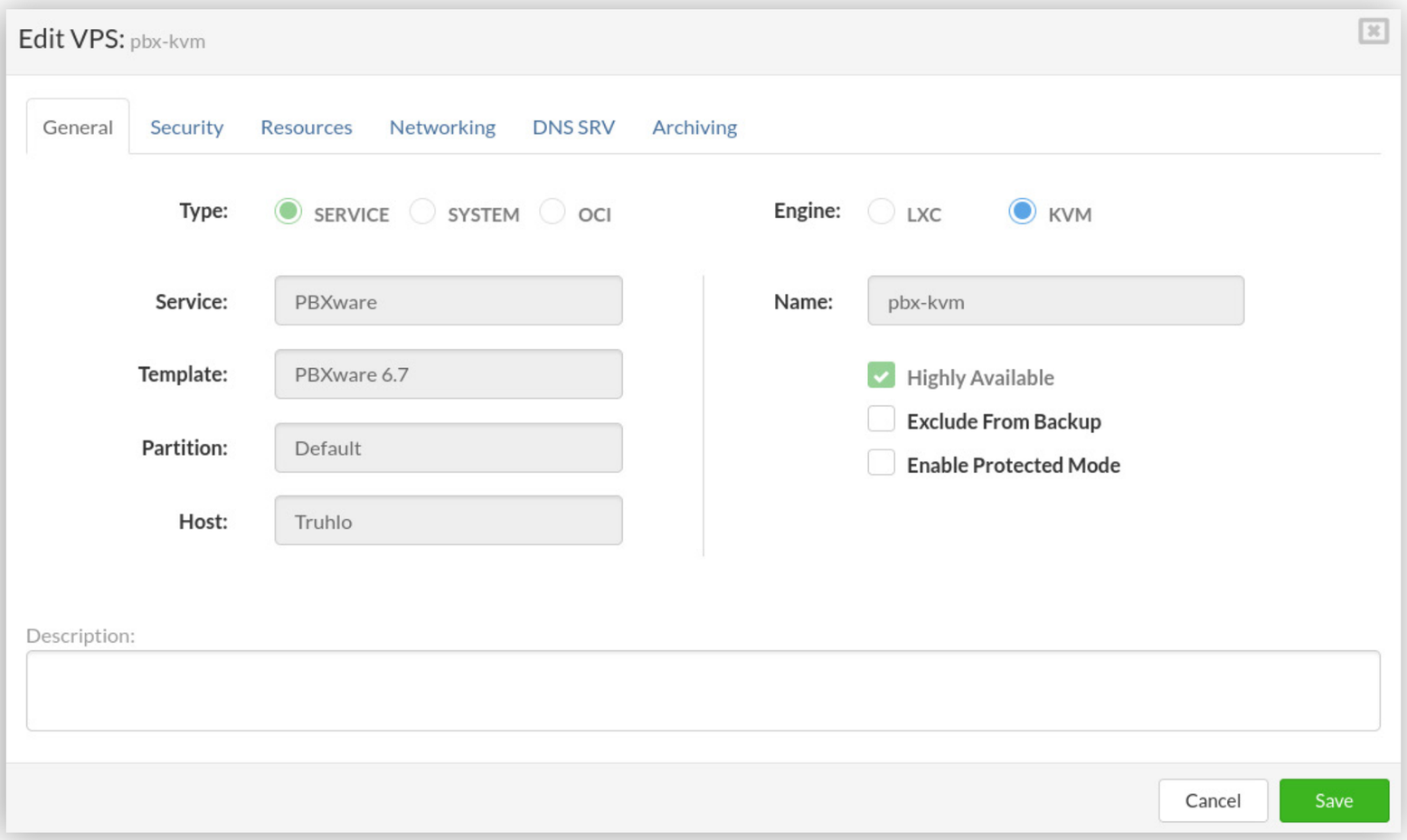
KVM as an additional VPS engine

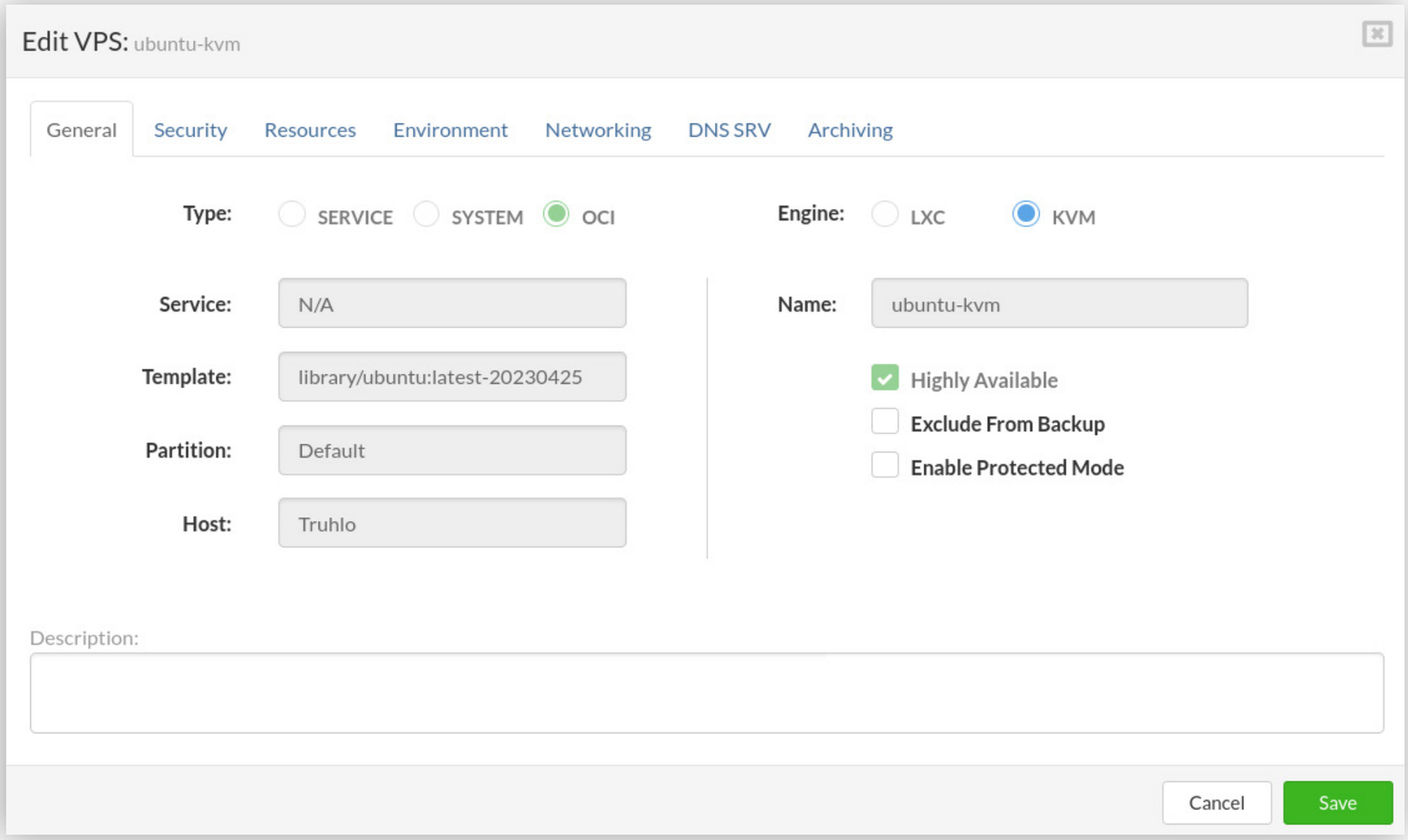
KVM stands for Kernel-based Virtual Machine and is based on Firecracker, an open source virtualization technology that is purposely built for creating and managing secure, multi-tenant container services.

With KVM, each VPS has a fully emulated or virtualized machine to run its copy of the Linux kernel, providing better isolation at the cost of some additional performance. From a security standpoint, this is a much better approach to partitioning resources between multiple services and their users.

SERVERware's implementation of KVM can run unmodified Linux containers as VPSs which can either be PBXware or Docker containers fetched as OCI images from Docker Hub and similar sources. Additionally, one can pack and distribute service software using open standards and tools.

SERVERware uses Firecracker, another open-source technology to manage KVM features and adapt them more easily to run unmodified Linux container images, where unnecessary features are stripped down, and almost all emulation that could potentially slow down virtual machines is removed.

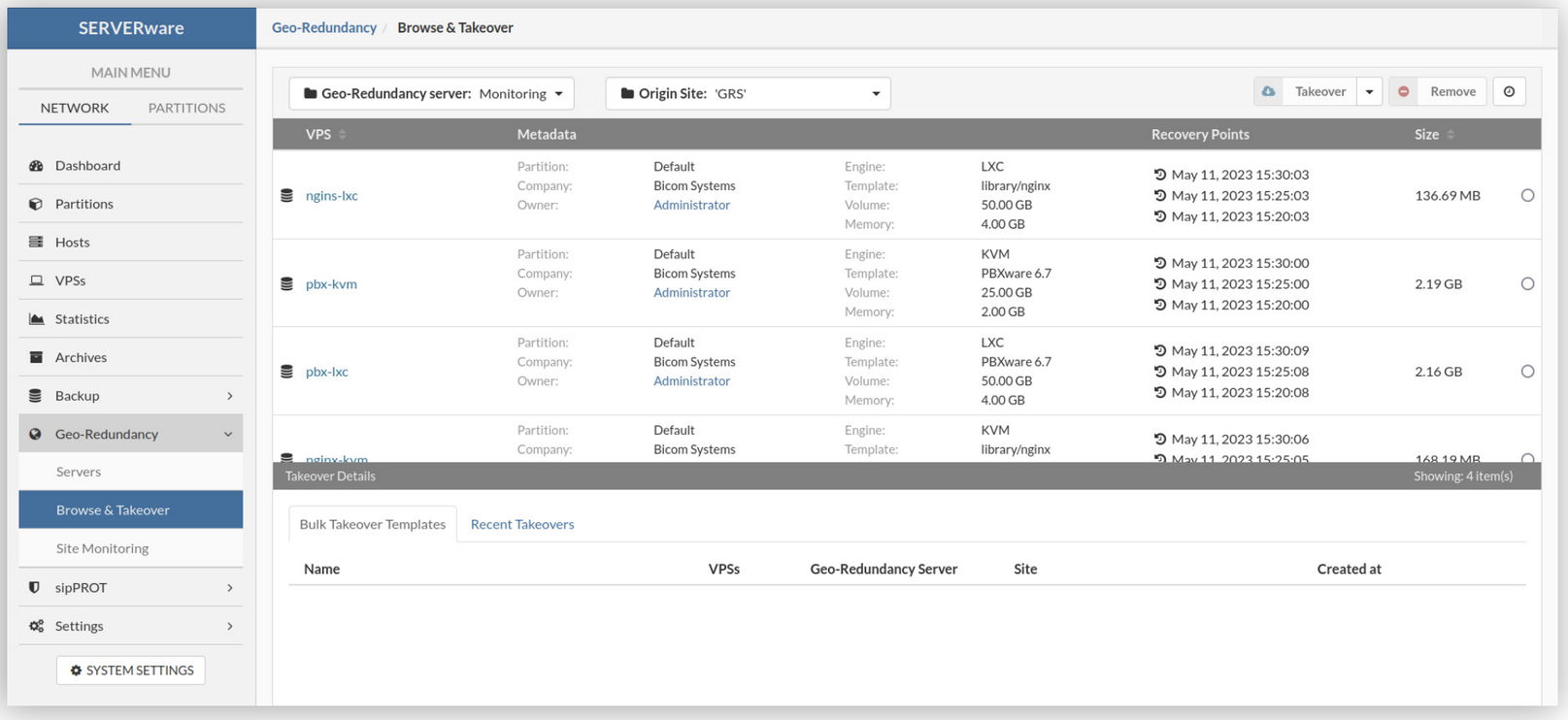




With KVM, each VPS is basically a virtual machine, better isolated and less exposed to malicious software or user behavior. VPSs that are using KVM as their engine can now safely change engines from LXC to KVM, and vice versa, be replicated and taken over, backed up and restored, and moved from one host to another, or change partitions. KVM VPSs will provide call stats, and can be securely accessed through your web browser thanks to the TTY terminal.

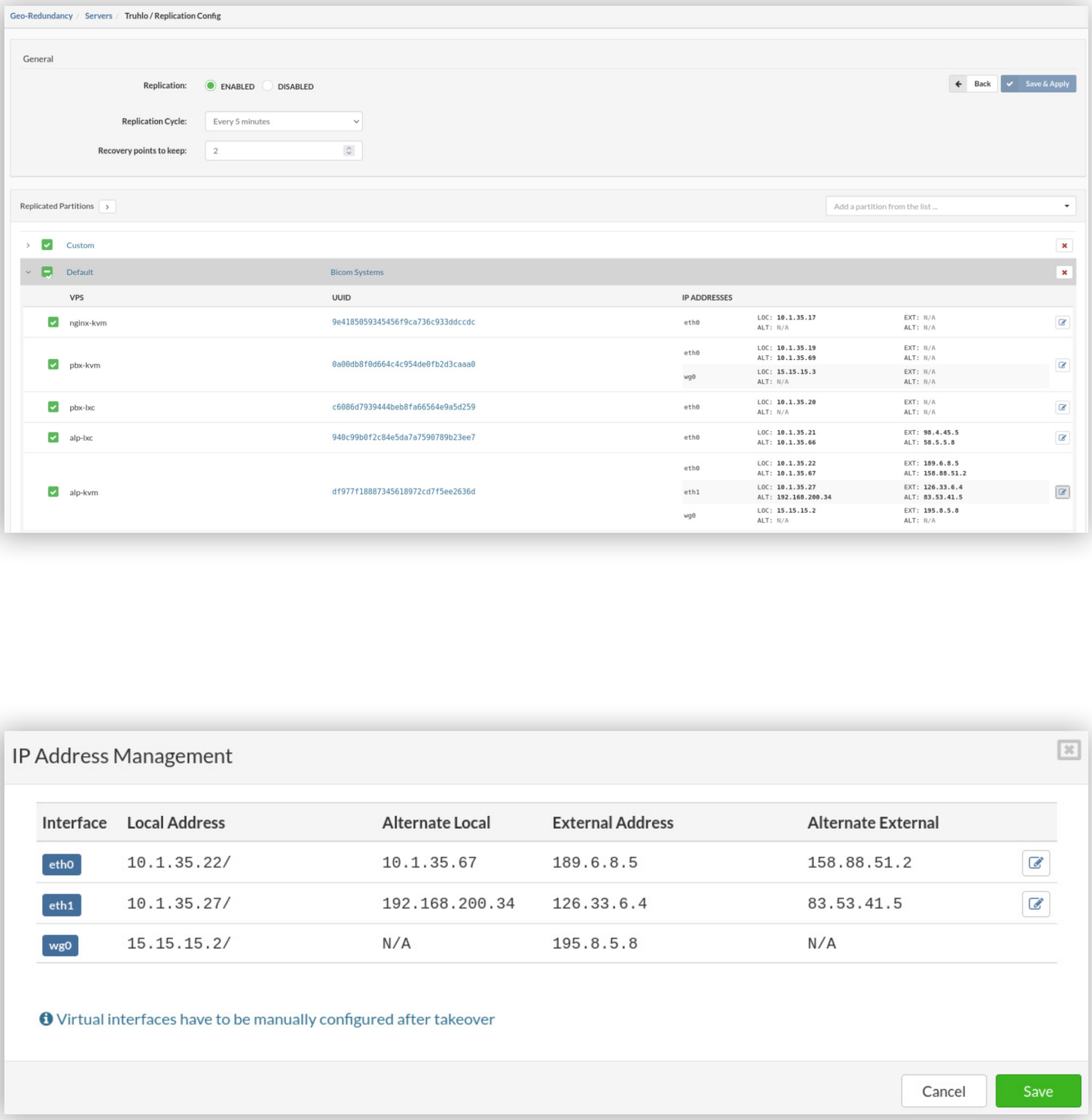
We've added support for virtual networks for KVM VPSs, and the option for KVM VPSs to fetch PBXware licenses, same as with LXC VPSs.

In short, all functionalities available for VPSs running on LXC engines are available for KVM engines as well.



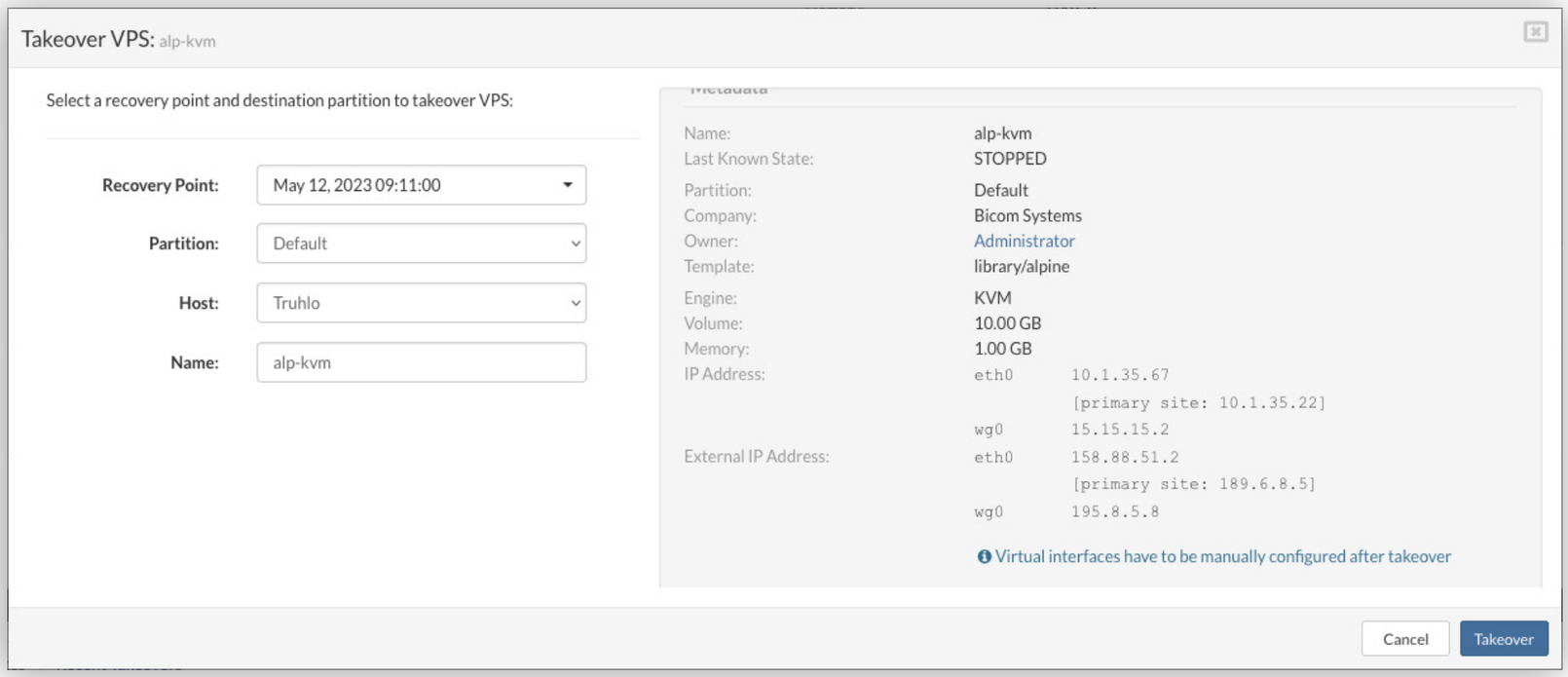
Multiple IPs for VPS takeover

For GR sites that have more intricate networking, with multiple network cards and network interfaces assigned to hosts and VPSs, SW administrators can now assign multiple alternate IPs for each network interface added to a VPS.



For virtual interfaces post-takeover, the IPs would need to be manually set.

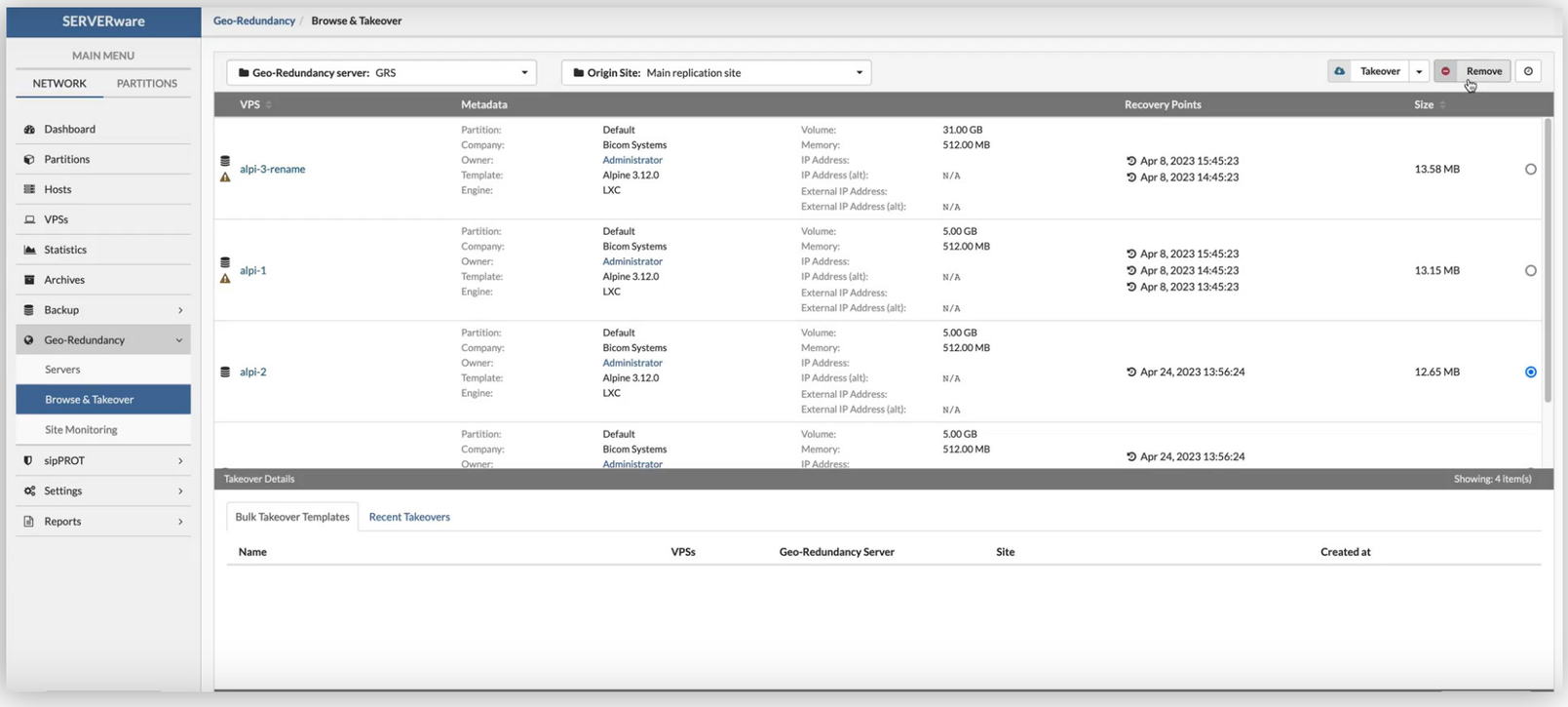
Once the VPS has been taken over to the GR site, the alternate IPs will be automatically assigned. This also goes for systems behind NAT, post-takeover, both local and external IP addresses will be automatically added to the VPS.

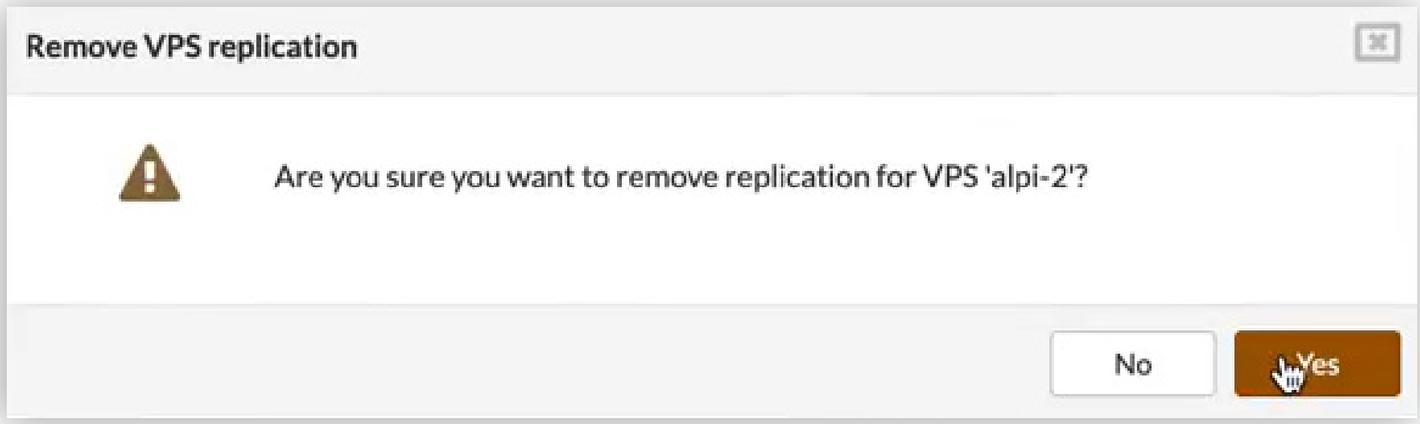


Remove replicated VPSs through the SERVERware GUI

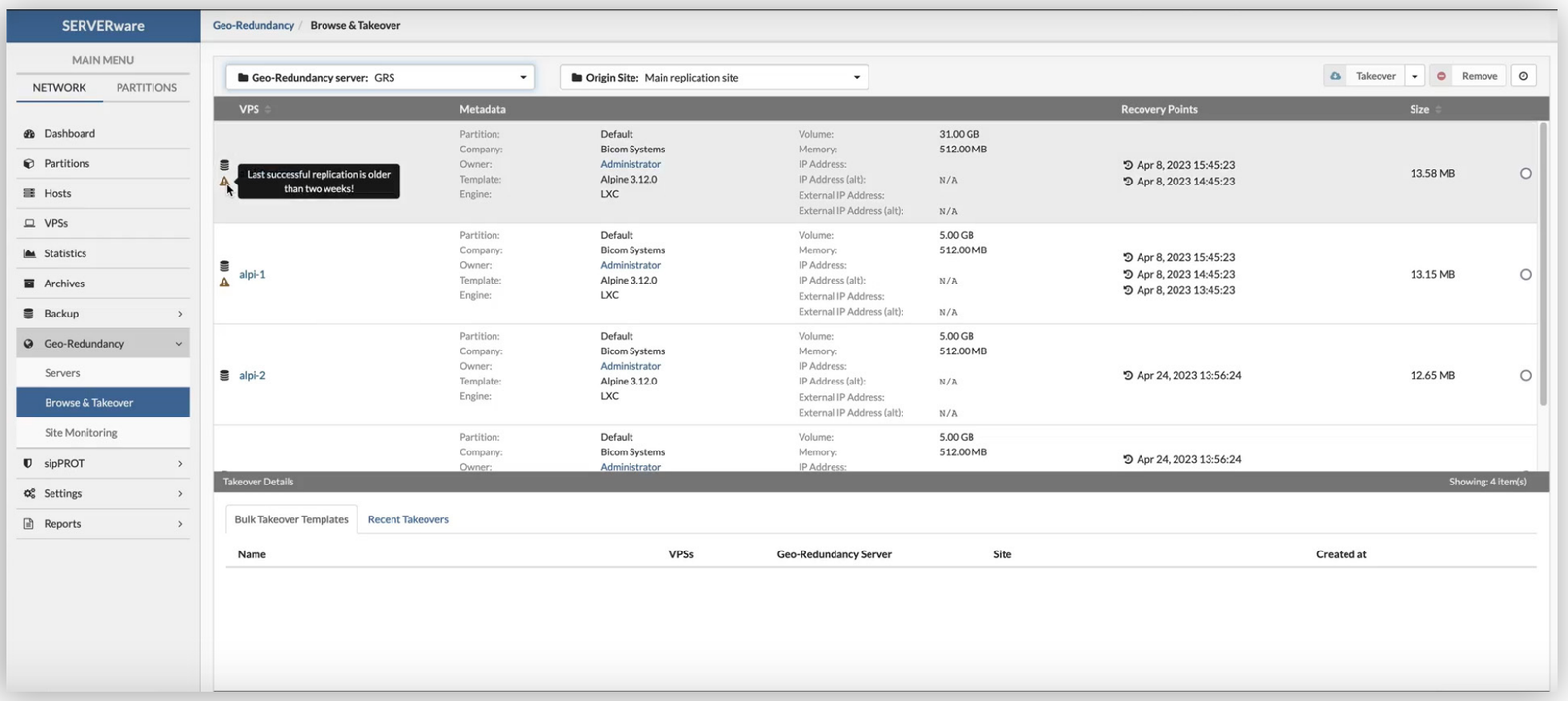
SERVERware administrators will now be able to remove old or unnecessary VPS replications from the GR pool more easily, by simply selecting the replication they wish to remove and then clicking on the remove button. This will in no way affect the VPS on the production site, or have any impact on the VPSs that are running on the GR site.

Once the VPS is removed from the GR pool, it can easily be replicated in full in the next replication cycle.



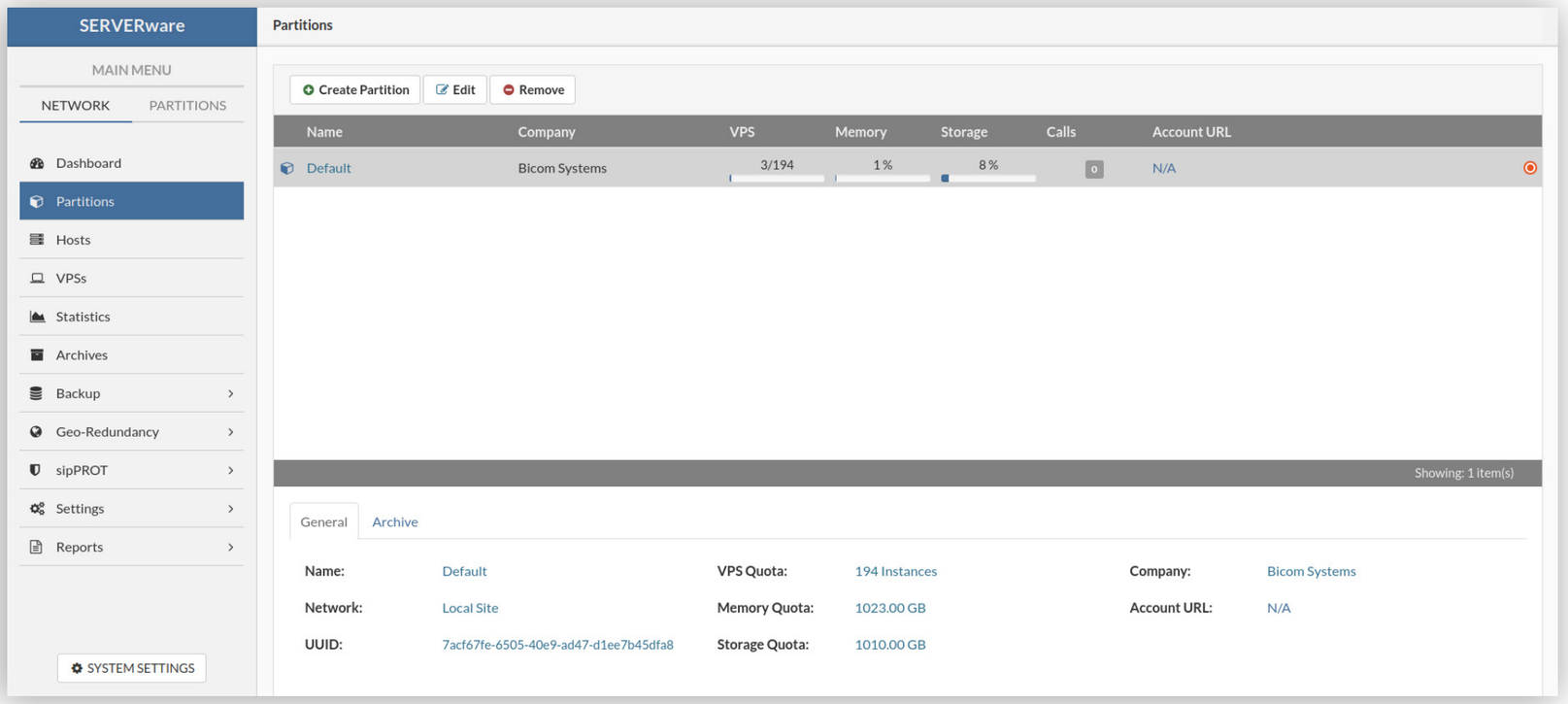


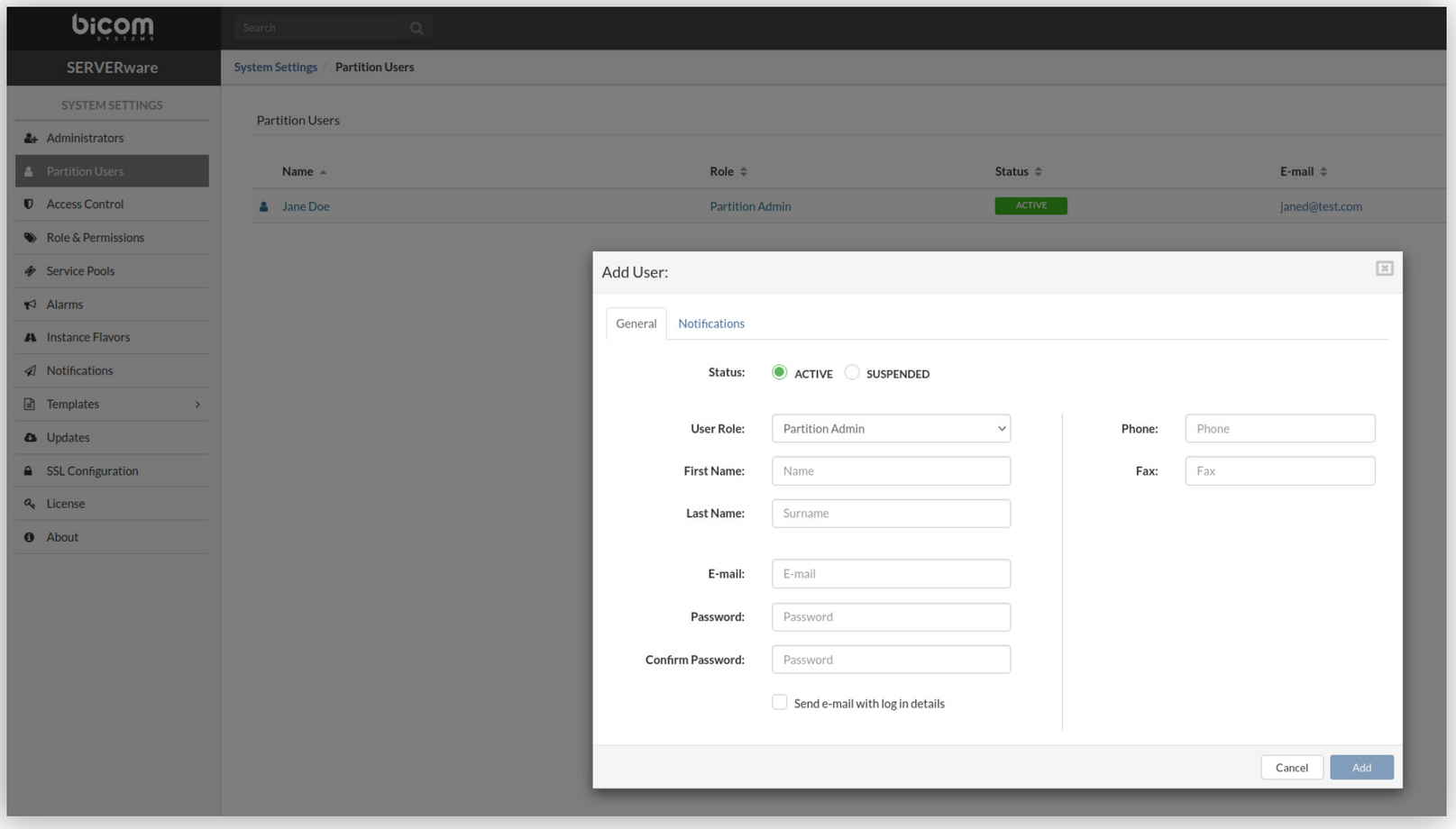
Additionally, for replications older than two weeks, the administrator will see a warning icon indicating that the snapshot in question has data that hasn't been resynced for the above mentioned time frame.



Domains renamed to Partitions

To reduce confusion with network domains, SERVERware Domains have been renamed to Partitions.


SERVERware
MAIN MENU
NETWORK
PARTITIONS
Dashboard
Partitions
Hosts
VPSs
Statistics
Archives
Backup
Geo-Redundancy
sipPROT
Settings
Reports
SYSTEM SETTINGS
Partitions
Create Partition
Edit
Remove
Name
Company
VPS
Memory
Storage
Calls
Account URL
Default
Bicom Systems
3/194
1 %
8 %
0
N/A
Showing: 1 item(s)
General
Archive
Name:
Default
Network:
Local Site
UUID:
7acf67fe-6505-40e9-ad47-d1ee7b45dfa8
VPS Quota:
194 Instances
Memory Quota:
1023.00 GB
Storage Quota:
1010.00 GB
Company:
Bicom Systems
Account URL:
N/A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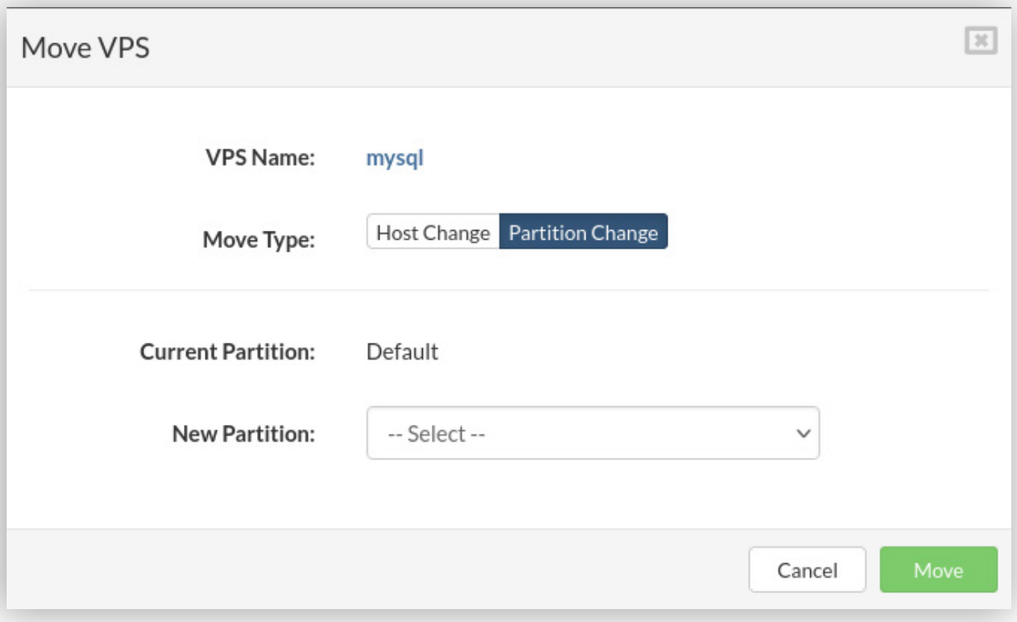
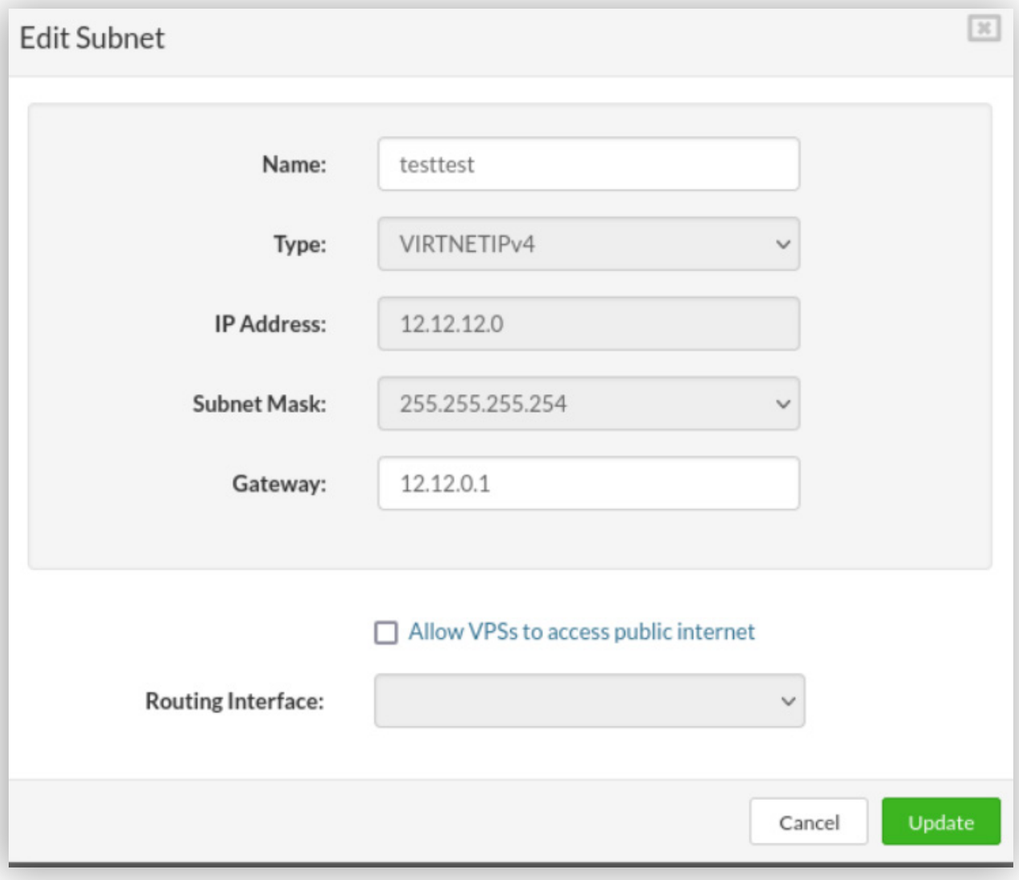
SERVERware
Search
System Settings / Partition Users
SYSTEM SETTINGS
Administrators
Partition Users
Access Control
Role & Permissions
Service Pools
Alarms
Instance Flavors
Notifications
Templates
Updates
SSL Configuration
License
About
Partition Users
Name
Role
Status
E-mail
Jane Doe
Partition Admin
ACTIVE
janed@test.com
Add User:
General
Notifications
Status:
ACTIVE
SUSPENDED
User Role:
Partition Admin
First Name:
Name
Last Name:
Surname
E-mail:
E-mail
Password:
Password
Confirm Password:
Password
Send e-mail with log in details
Phone:
Phone
Fax:
Fax
Cancel
Add


Move VPS
VPS Name:
mysql
Move Type:
Host Change
Partition Change
Current Partition:
Default
New Partition:
-- Select --
Cancel
Move

Optimizing networking for custom subnetting

Subnetting within SERVERware is now made easier with the new option to add custom subnets consisting of one to two IP addresses, and the ability to assign a default gateway from a wider range.



Ubuntu 22.04 in system templates

The latest stable version of Ubuntu 22.04 has been added to the SERVERware system templates. This update brings a lot of new features and enhancements, providing users with a more seamless and efficient experience.

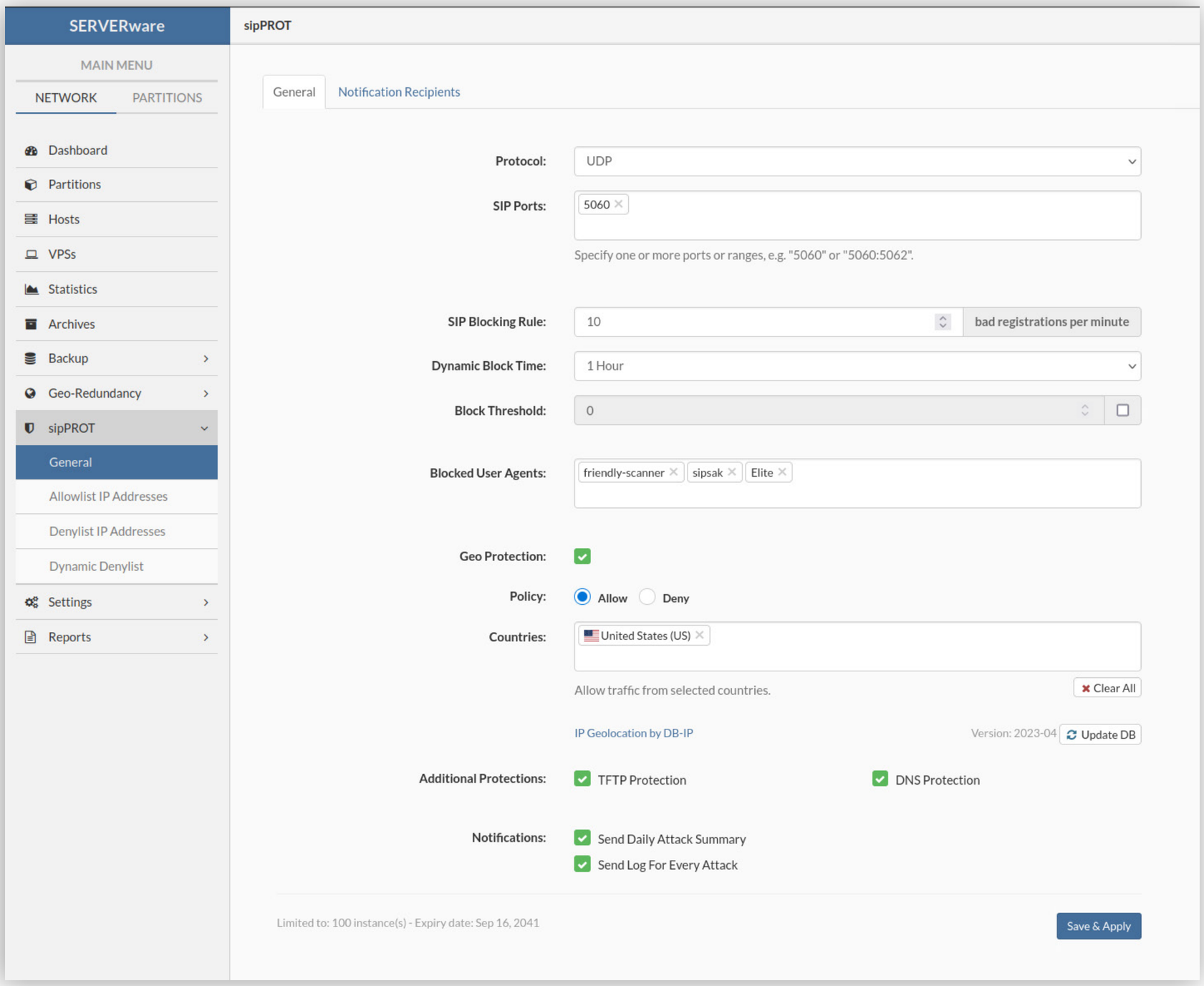
System Installation Wizard: Added the option to create ZFS pools on OS disks

Upon installation, the install wizard will automatically detect available disks for the SERVERware operating system and suggest possible ZFS pool configurations based on the selected number of disks. Depending on the chosen configuration, the install wizard will create a pool for the operating system. Available configurations include stripe, mirror and RAID Z.

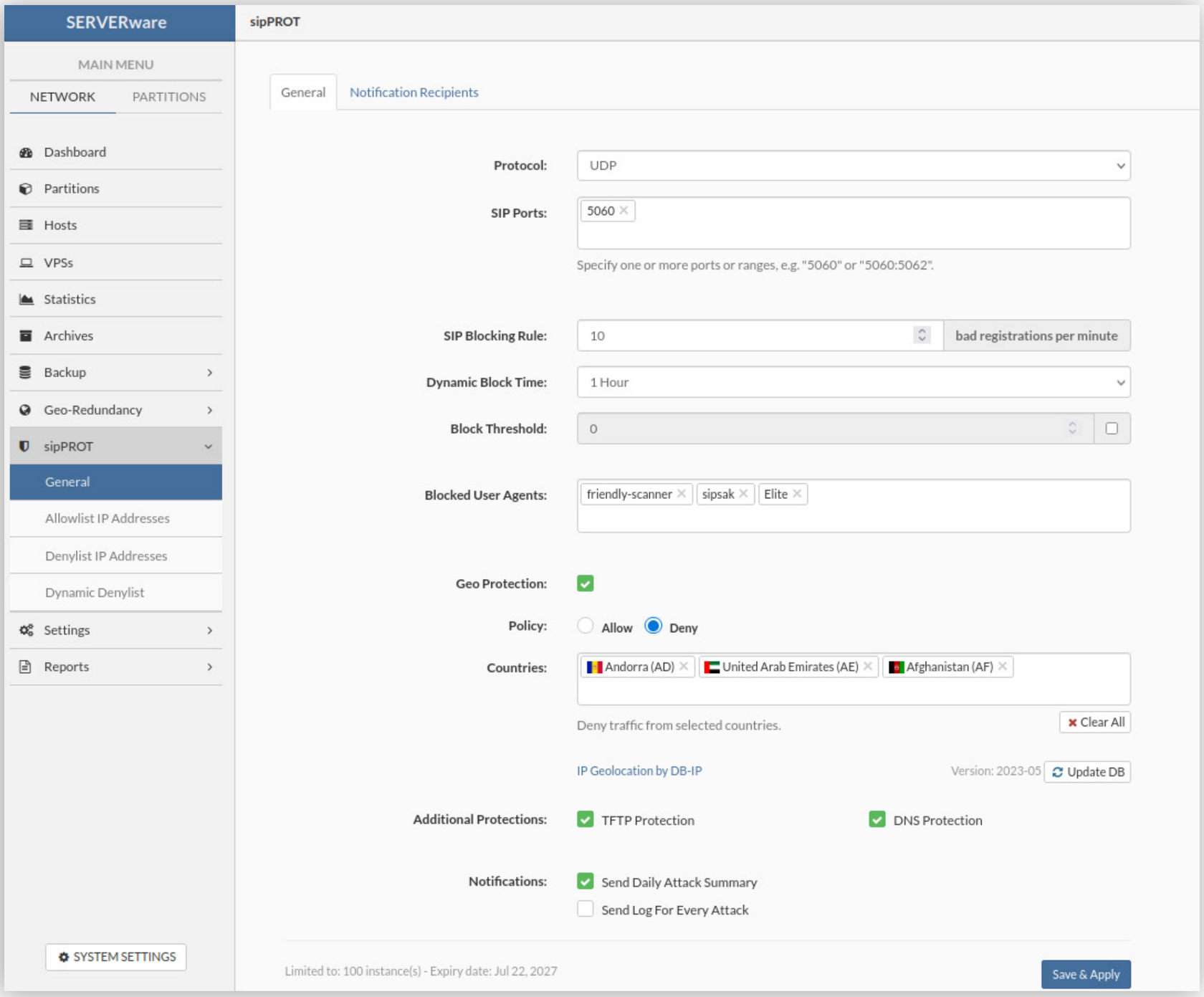
sipPROT

Geo-IP allow/deny policy

To more easily manage the Geo-IP blocking policy in sipPROT, two policies have been implemented. The allow policy will allow traffic from only the selected countries in the list, and block traffic from the rest of the world.



The deny policy will block all traffic from the countries on the list, and allow traffic for the rest of the world.



CSV templates for allowlist and denylist

A CSV template for the allowlist and denylist has been added, so SERVERware administrators can more easily and accurately upload lists of IP addresses.

Improvements & Bug fixes:

1. Instance flavor limitation for CPUs, IOPS and bandwidth increased to unlimited and a notice for bad memory and storage values was implemented.

2. The range for blocking IPs on sipPROT is now limited to /8.

3. Fixed a bug where the VPS owner could manage all VPSs by default.

4. Fixed a bug where a custom value was not allowed when extending VPSs.

5. Fixed a bug where sip ports fields in sipPROT were empty after an upgrade.

6. Takeover tasks of VPSs that do not have DNS SRV records will no longer display the “Completed with errors” error message in the GUI. Instead, there will only be a warning message in the CLI logs.

7. Fixed a bug where the VPS template download got stuck if the LAN connection was lost.

8. Fixed a bug in the Audit logs where the action would complete, but it would still be displayed as “Queued”.

9. Limited the number of characters for host names in the Setup wizard to 60.

10. Implemented a lock when editing VPS resources which prevents restarting the VPS while an action is still in progress.

11. Improved logging for VPS trim.

12. When adding DNS Zones an error message will appear if DNS protection is enabled in sipPROT.

13. Fixed a bug where an IP address from the Default partition could be assigned to a VPS in a partition where no IPs are added.

14. Whitelisted trusted Bicom Systems domains in sipPROT.

15. Fixed a bug where pressing the escape button would prompt an error message in the GUI.

16. Fixed a bug where the evacuate functionality was not working on hosts that are running on different versions of SERVERware.

17. Firecracker binaries are now installed on GUI update.

18. Updated sysmonit as part of the sw-connector update during GUI update.

19. Fixed an issue in sw-wcp where BI statistics fail to fetch total restored bytes from the backup server.

20. Modified the SERVERware UI to change “Login” form to “Log in”.

21. Resolved an issue in the partition edit form where users were unable to enter a custom number in the storage size field.

22. Fixed margins for Backup - Bulk Restore Details view.

23. Prevented fc-start/fc-run from starting the same VPS instance multiple times.

24. Resolved an issue in sw-connector where the installer installed sw-firecracker twice, leading to misleading sysmonit messages.

25. Enforced file system check after VPS extend in sw-connector.

26. Added statistics for DISK IOPS in KVM.

27. Fixed an API issue in Create VPS, where the back-end check for the engine field (LXC, KVM) was missing when using an external API call.

28. Added at package to SERVERware OS.

29. SERVERware 4.5 iso updated to the latest EFI.

30. Sysmonit updates as part of sw-connector update.

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