

zadara

zStorage Release Notes

Release 20.12-SP1

Zadara

May 06, 2021

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This document describes the Zadara Storage Cloud release notes. These release notes contain important information available at the time of the release. New features, important bug fixes, known limitations are addressed here.

KEY ENHANCEMENTS

1.1 VPSA Storage Array

1.1.1 KMIP Integration (Equinix SmartKeys)

Users can now use their Equinix SmartKeys keys for VPSA Storage Array Volume encryption. A VPSA with a user provided encryption key can switch to a KMIP based encryption.

Security

Passwords policy:	Enforce password expiration: No, Password history: 8	Edit
Dual Factor Authentication:	Enforce Dual factor Authentication: No	Edit
Global VPSA CHAP:	User: <input type="text"/> Secret: <input type="text"/>	Edit

[Close](#)

Volumes Encryption Options:

- Encryption using an Encryption Password
- Encryption using AWS KMS Store
- Encryption using KMIP supporting KMS

IMPORTANT: PLEASE REVIEW THE FOLLOWING INFORMATION CAREFULLY.

FAILURE TO DO SO PUTS YOU AT RISK OF PERMANENTLY LOSING ACCESS TO YOUR ENCRYPTED DATA!

In order to securely protect the privacy and integrity of your data, your encryption/decryption keys are stored in a way which makes them inaccessible to anyone but you (including Zadara).

The benefit to you is that Zadara, your Cloud Provider, or anyone other than you is unable to decrypt your data.

Your KMS account and the provided KMS key must remain accessible in case the system requires access to it.

Please enter your KMS connectivity information:

KMS Type

KMS Host

Connect Via

KMS Key ID

1.1.2 Azure BLOB storage support

Users can utilize their Azure Blob storage with the VPSA Storage Array Backup to Object Storage. This option is added to the existing support of VPSA Object Storage, AWS S3 and Google Cloud Storage as the remote object storage.

Connect Remote Object Storage

Interface: S3 Azure BLOB Service API

Type: Azure Blob Storage

Container: *

Account: *

Storage Account Key: *

Connect Via: * Frontend - 10.2.14.158

⚠ Lifecycle policies may delete or move the backup job data/metadata which may cause inconsistency. Please consult Zadara's Support before enabling Lifecycle policies.

Use Proxy:

Proxy

Host: *

Port: *

Use Authentication

User: *

Password: *

1.2 VPSA Object Storage

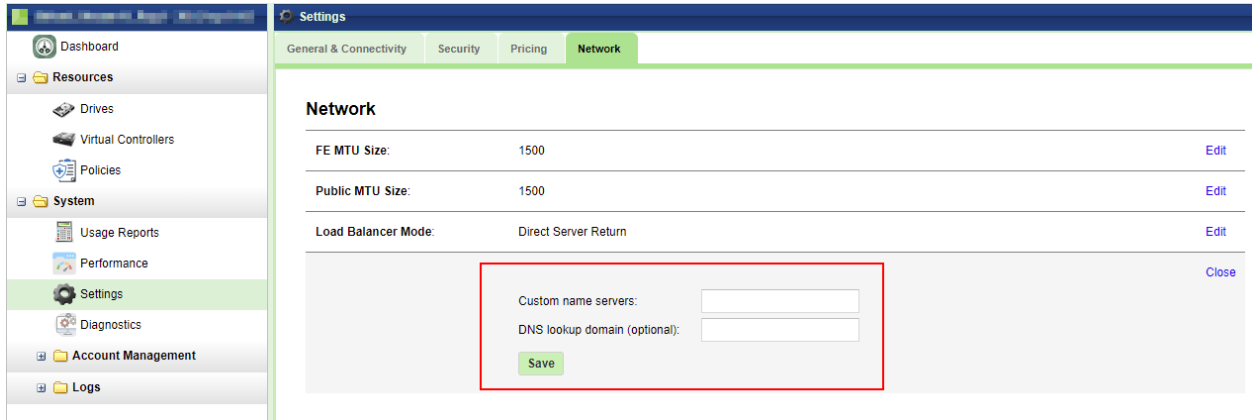
1.2.1 New object versioning V2 method support

Versioning provides an additional layer of protection for objects. Users can easily recover from unintended user errors or application failures. Users can also use Versioning for data retention and archiving.

The new versioning method is the default versioning option for new containers created in version 20.12-SP1 onwards, This uses symlink and hidden container for implementing versioning rather than the archive container.

1.2.2 Openstack Keystone integration - custom DNS support

VPSA Object Storage administrators can set their private name servers to support private domain names.



The screenshot displays the VPSA Settings interface. The left sidebar contains navigation options: Dashboard, Resources (Drives, Virtual Controllers, Policies), System (Usage Reports, Performance, Settings, Diagnostics), Account Management, and Logs. The main content area is titled 'Settings' and has tabs for General & Connectivity, Security, Pricing, and Network. The Network tab is active, showing the following settings:

Setting	Value	Action
FE MTU Size:	1500	Edit
Public MTU Size:	1500	Edit
Load Balancer Mode:	Direct Server Return	Edit

Below these settings, a red box highlights a section for custom DNS configuration:

Custom name servers:
DNS lookup domain (optional):

1.3 Interoperability

1.3.1 VPSA Driver for OpenStack Manila

Zadara VPSA Storage Array & Flash Array share driver for OpenStack Manila is now available with the Wallaby release.

CHANGELOG

Release 20.12-SP1 is a service pack release to the previous Zadara 20.12 release which includes scalability, security, usability improvements, new features and bug fixes.

The following section will breakdown the additions and updates to the Zadara Storage Cloud platform.

2.1 Version 20.12-SP1-132

2.1.1 VPSA Storage Array and VPSA Flash Array

- **19821** - Fixed an issue where a large demote queue may cause a VC to failover in a tiered VPSA
- **19835** - Fixed an issue where docker container issues an async IO may cause the VC to failover

2.1.2 Provisioning Portal

- **19834** - Fixed an issue where administrator cannot invoke a VPSA operations on behalf of a user

2.2 Version 20.12-SP1-123

2.2.1 VPSA Storage Array and VPSA Flash Array

- **18303** - Added KMIP (Equinix SmartKeys) support for volumes encryption
- **7170** - Added support for Azure Blob storage as a remote destination for "Backup to Object Storage".
- **19398** - Added KDC IP validation
- **19341** - Get Volume/Snapshot API enhancements, additional volumes/snapshots attributes returned

2.2.2 VPSA Object Storage

- **19533** - VPSA Object Storage SSL certificate (zadarazios.com) was updated
- **19263** - Added auto-disable mechanism for detailed performance monitoring
- **19162** - Optimize ring partition power for newly created VPSA Object Storage
- **19145** - Remote authentication provider (Openstack Keystone) now binds all external traffic to the Front End network
- **18867** - Optimize usage report mechanism to support 1000 remote accounts
- **19145** - Added an option to define a custom name server (remote authentication provider name resolution)
- **18901** - New versioning option (v2) was added

2.2.3 Provisioning Portal

- **18179** - Added support for Object Storage account provisioning directly from Zadara Provisioning Portal

2.2.4 Command Center

- **19631** - Fixed an issue where 403 response is return for a custom Command Center role
- **19157** - Fixed an issue where CCVM certificate update via API did not work

2.2.5 Misc

OpenStack Manila VPSA Driver

Wallaby release - a Zadara VPSA (Storage Array & Flash-Array) share driver was introduced.

Manila VPSA driver provides a seamless management capabilities for VPSA volumes, in this case, NFS & SMB volumes without losing the added value provided by the VPSA Storage Array/Flash-Array.

Supported operations:

- Create a share.
- Delete a share.
- Extend a share.
- Create a snapshot.
- Delete a snapshot.
- Create a share from snapshot.
- Allow share access.
- Manage a share.

For additional information/full configuration reference please refer to the [official Openstack Manila documentation](#).

Openstack Cinder VPSA Driver

Wallaby release - The Zadara VPSA block Driver for Openstack Cinder was updated with the following enhancements:

- Added support for manage/unmanage volumes
- Added support for manage/unmanage snapshots
- Added support for multiattach
- Added support for IPv6 VPSA networking

The updated driver requires a VPSA running version 20.12-SP1 or later.

KNOWN ISSUES AND LIMITATIONS

3.1 VPSA Storage Array & VPSA Flash-Array

- **19582** - Azure Blob based remote object storage cannot be used for Tiered pools.

3.2 Provisioning Portal

- **19549** - Object Storage account deletion does not generate a confirmation email
- **19539** - Object Storage account console status doesn't change post deletion request
- **19537** - Provisioning Object Storage account via Provisioning Portal API is not supported
- **19490** - Provisioning Portal user email modification will not be populated to the remote object storage