

zadara

zStorage Release Notes

Release 20.12-SP1

Zadara

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CHAPTER

ONE

SCOPE

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.

1.1 Revision History

Date	Revision	Released packages	Description
February 2021	1	20.12-317	20.12 GA

NEW FUNCTIONALITY AND CHANGE LIST

2.1 Release 20.12

Release 20.12 is an enhancement to previous release 20.01 with some scalability, security, and usability improvements, new features and fixes to issues that were found in previous releases. This zStorage release has many key enhancements that continue to round out the Zadara zStorage enterprise grade feature set!

2.2 What's new in Zadara Cloud

2.2.1 Zadara Kubernetes Operator

Containers are an emerging method for running applications. Adoption of Kubernetes (and containers usage in general) is growing in the enterprise. Container based applications require persistent storage that Zadara VPSA provides.

The Zadara Operator provides storage and data management for K8s stateful applications as a cloud-native service, while leveraging Zadara's enterprise grade Storage-as-a-Service VPSA for provisioning and managing persistent storage.

Zadara Operator provides:

- Zadara CSI driver automatic installation and management Automatic K8s application discovery.
- Application protection using an intelligent and efficient snapshots mechanism.
- Custom snapshots scheduling for application protection.
- Instant application clone.
- CLI for centralized management for Zadara's K8s assets.
- Migrate application from one cluster to another.

More information can be found at the [Zadara Operator Github repository](#).

2.2.2 IPv6

Zadara storage now fully supports IPv6 for both hosts connectivity and management purposes.

2.2.3 Security

TLSv1.1 protocol was disabled for all Zadara Web Applications, TLSv1.2 and TLSv1.3 are the supported TLS protocols.

2.3 What's new in VPSA Storage Array and Flash Array

2.3.1 Auto Tiering

With the VPSA Flash Array, customers can now have primary storage pools consisting of both flash (SSD) and hard disk drives (HDD) or flash (SSD) and object storage (Zadara or other S3 compatible object storage). With these new hybrid primary storage zStorage Flash Array deployments, data is automatically placed on the higher performing flash drives if frequent access is needed, and the less frequently accessed data is placed on the lower cost hard disks/object storage.

The business value of Auto Tiering lies in the fact that it enables efficient use of the underlying storage media/resources.

Create Pool

Name: *

Type: IOPs-Optimized Balanced Throughput-Optimized

SSD Cool Off (Hours): 0

SSD Storage Class

<input type="checkbox"/>	Name	Type	Capacity	Status	Storage Node	Zone
<input type="checkbox"/>	drive-034	SSD	3.49 TiB	Available	qa10-en2	zone_0
<input type="checkbox"/>	drive-035	SSD	3.49 TiB	Available	qa10-en1	zone_0

Use Raid Group Selection

Additional Storage Class: * None HDD OBS

OBS Storage Class

Remote Object Storage: vsa-00000001-zadara-qa19.zadaracloud.com-qa10-bucket

Size (Tib): 20

Configured Pool Useable Capacity: 20.00 TiB

Create Cancel

New Flash Array models that support tiering were introduced:

VPSA Flash Array	Description
H100	Maximum 60 drives OR 280TB**
H200	Maximum 80 drives OR 440TB
H300	Maximum 120 drives OR 800TB
H400	Maximum 140 drives OR 1000TB

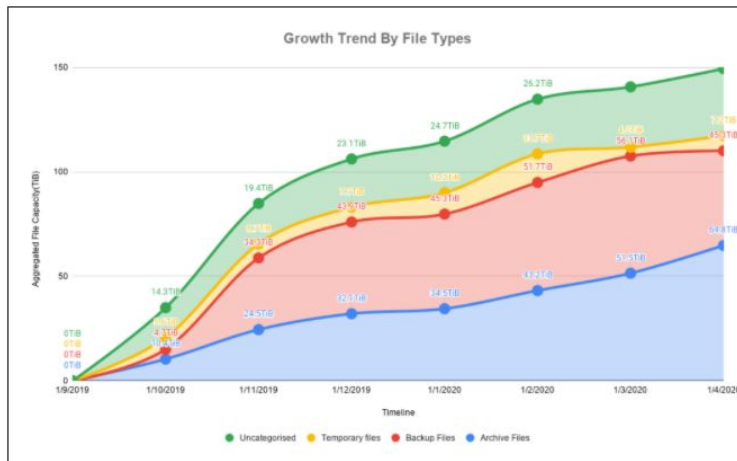
** All values represent RAW storage

2.3.2 Max Volume Size increase

With the 20.12 release, the maximum capacity supported per a VPSA (and a single volume allocated on it) increases from 200TB / 250TB to 500TB in VPSA Storage Array, and VPSA Flash Array. This will be very appealing to customers using large file systems for backup repositories, media repositories and/or large file archives.

2.3.3 File Analytics

This release introduces the new built in file analytics capabilities for VPSA NAS shares. Zadara File Analytics helps customers navigate through data and gives them better visibility to manage their data more effectively. File Analytics helps solve data challenges around ownership, storage consumption, storage optimization, and data protection. It also reports on key growth trends and capacity utilization trends



2.3.4 File Access Audit

This release keeps full access log per file system. Users can now have access to a secure log of any file operation (read/write/rename/etc... for auditing purposes).

2.3.5 File History

This release adds File History capabilities to NFS shares, as it is supported for SMB shares. File History allows quick restore of any specific version of a given file.

2.4 Major Changes & bug fixes

2.4.1 20.12 Build 317

VPSA Storage Array and VPSA Flash Array

- **4069, 17314** - File access audit Logging was added to NFS and SMB shares
- **12992** - Server Monitoring Capability was added
- **13037** - The ability to Mirror via a Proxy server was added
- **13244** - External KMS was added as an alternative for manual encryption password
- **13877** - Fixed an issue where user mapping is invalid on Mirror destination in the sub-domain environment
- **15104** - It is now possible to change a volume export name irrespective of its state
- **15126** - Added the option to set individual shares (NFS/SMB) as Read Only or Read Write
- **16038** - Connecting to Remote VPSA over VNI (Secondary Network) is now supported
- **16331** - Ability for a single NFS file recovery from a snapshot was added (NFS File History)
- **16340** - Improved SMB signing performance
- **16484** - fixed an issue where Destination VPSA was deleted, and there was no option to break the remote clone from source VPSA
- **16642** - Fixed Low SMB performance issue as result of “case sensitive” that was set to “no” by default
- **16717** - Changing Password does not reset API Token
- **16823** - Provided the ability to toggle “mangled names” on SMB shares
- **16830** - Blocking Servers deletion if there are open iSCSI connections to it
- **17175** - New pool types, with 500TB limit, were added. **Depot** pool on Storage Array, **Throughput Optimized** pool on Flash Array
- **17951** - “Linux iSCSI Connect Script” now supports both curl and wget
- **18096** - New pool types for Flash Array. IOPS-Optimized, Balanced, Throughput Optimized
- **18276, 18506** - File Analytics is now supported for file shares
- **18877** - VPSA volume ‘protection’ column is now ‘Attributes’, icons display for FLC indexing, encryption and automatic expansion

- **18940** - Fixed an issue where User that belongs to ignored sub-domain can access files on the SMB volume
- **18980** - Fixed an issue where SMB Volume is still accessible after it was detached from the Server
- **17387** - TLSv1.1 protocol was disabled for all Zadara Web Applications, TLSv1.2 and TLSv1.3 are the supported TLS protocols

VPSA Object Storage

- **12433** - Domain registration process for public IP was automated
- **15132, 16185, 18779** - Performance Dashboard was added
- **15419** - Virtual host style URL is now supported. It enables using the bucket name as part of host name
- **15907** - Added support for CORS (Cross Origin Resource Sharing)
- **16093** - Object level ACL support was added for the default policy permissions
- **16358** - "s3" default region name set to us-east-1
- **16543** - GUI enhancement that displays locked user information, and provides an option to unlock
- **17466** - Immutability support was added for the multipart objects
- **17515** - added the ability to restore previous object versions using s3browser on versioning enabled containers
- **17689** - It is now possible to use an external identity provider (Openstack Keystone) as the authentication engine
- **17753, 18465** - Object Storage now supports multiple VNIs. All configured networks can be either IPv4 or IPv6
- **18157** - A fix for handling swift API HTTP response code properly
- **18194** - Storage Policies offering was modified (Added: EC 2+1 and 2-Way MZ, removed 3way and EC 6+3)
- **18799** - Added metering statistics for s3api calls
- **18958** - Modified gradual policy expansion default value from 10% to 25%
- **18977** - The Capacity alert mechanism was improved to give better prediction for potential capacity shortage
- **17387** - TLSv1.1 protocol was disabled for all Zadara Web Applications, TLSv1.2 and TLSv1.3 are the supported TLS protocols

Provisioning Portal

- **14368** - Encourage users to enable MFA for their Zadara accounts
- **18576** - An entire new "white labeling" to the Provisioning Portal has been implemented
- **17387** - TLSv1.1 protocol was disabled for all Zadara Web Applications, TLSv1.2 and TLSv1.3 are the supported TLS protocols

Command Center

- **14784, 18040** - It is now possible to set any support ticket attributes (priority, to_user, rate limit, etc...) per VPSA
- **16847** - Active FE IP presentations across Command Center Tabs are now aligned
- **17002** - Block VPSA upgrade from a version that is more than 2 major releases behind, and block version downgrade
- **17292** - Noticeable indication was added on node display when a service is not available
- **17323** - Data reduction metrics for VPSA Flash Array added to the VPSA dashboard
- **17416** - When VPSA GUI is not accessible and GUI cannot be launched an error is shown
- **18041** - Event-log messages of addremove cache were modified to include cache capacity
- **18591** - An option to change the command center logo was added for White labeling purposes
- **17387** - TLSv1.1 protocol was disabled for all Zadara Web Applications, TLSv1.2 and TLSv1.3 are the supported TLS protocols

KNOWN ISSUES AND LIMITATIONS

3.1 Known issues and limitations introduced in 20.12

Zadara Cloud

- **19250** - Asigra VPSA creation might fail with DVM state EXECUTING_REBOOT

3.2 Known issues and limitations introduced in 19.08

Zadara Cloud

- **15397** - "Edge device" (Cloud-in-a-Box) with 10GBase-T RJ45 hosts connectivity can be expanded to a full cloud by connecting BE Mellanox switches.

VPSA

- **13626** - Volume or clone deletion may result in misleading effective capacity.
- **15104** - Can't rename volumes in "failed" state.
- **15700** - VPSA with IPv6 GUI cannot be opened using domain name with Chrome browser if IPv6 address is not global. This is a Chrome issue.
- **15888** - Encrypted volume cannot be remote cloned as non-encrypted volume, and vice versa.
- **15943** - IO may fail during model upgrade of VPSA model 200 if the CPU is highly utilized.
- **15969** - Non admin users are unable to activate/deactivate their own dual factor authentication.

3.3 Known issues and limitations introduced in 18.11

VPSA All Flash

- **12388** - Capacity saving by zero pattern matching is not counted in the savings calculation.
- **13509** - Removing of Master Encryption Password is possible only after deleting the pools.