Triggering the 64-bit expansion process

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# Overview

This document details the 64-bit aggregate expansion process without requiring the addition of disks. The expansion process updates the format of the indirect blocks for all volumes within the aggregate and the aggregate to the 64-bit format.

# requirements

* All FlexCache volumes must be destroyed
* All volumes within the aggregate being expanded \***must**\* be online
* The aggregate should not contain any snapmirror destinations
* The filer must be in the diag mode (Command: priv set diag)
* Each volume within the aggregate and the aggregate itself should have at least 5% free space
* The aggregate should not contain any volumes marked as read-only
* The expansion process must finish on all volumes prior to triggering DataMotion.
* The entire aggregate must be expanded to 64-bit.

# 64-bit expansion process

**Assumption:** The aggregate and volumes are 7-mode only.

In certain scenarios, a 32-bit aggregate and its flexible volumes can be expanded to 64-bit without adding any new disks.

The command to trigger the expansion process in this case is:

aggr 64bit-upgrade start <aggr> [ -mode { check | normal } ]

**Note:** Since disks are not being added, please use the “check” command first to ensure the aggregates and volumes have sufficient free space for the 64-bit expansion process.

**Note:** Preferably, 64-bit expansion should be performed one aggregate at a time to minimize impact to system performance.

The command must be triggered on the aggregate and not for an individual volume. The process can be monitored using the status command.

The command to check the status of the expansion process is:

aggr 64bit-upgrade status <aggr\_name> [ -all ]

Please ensure that the status command does not show any in-progress expansion activity on the aggregate or any volume within the aggregate prior to initiating DataMotion for vfilers.

After the expansion process is triggered, you can confirm the new format of the aggregate /volume using the following commands:

aggr/vol status

**Note:** Even though an aggregate/volume is listed as 64-bit, background expansion activity may still be in progress for this aggregate/volume. Please use the “aggr 64bit-upgrade status” command to ensure the expansion process has completed.