QoreStor Dictionary Expansion – Quick Start Guide

This Quick Start Guide provides the essential steps to safely expand a QoreStor system's deduplication dictionary using the Dictionary Expansion Utility. Use this as a reference for live or dry-run operations.

1. Basic Usage

Run the script as root or qsadmin (with sudo privileges):

- ./Dictionary_Expansion_<*version*>.sh [options]

2. Common Options

Option	Description
--help	Display usage information.
--dry-run	Simulate all actions (no changes made).
--fast-start	Faster polling for test runs.
--show-all-sizes	List all available dictionary sizes regardless of limits.

3. Key Steps

1. 1. Display system and storage details.
2. 2. Verify available memory and metadata space.
3. 3. Choose a new dictionary size from available options.
4. 4. Confirm readiness to stop QoreStor services.
5. 5. Expand dictionary (creates new dict file and rotates old one).
6. 6. Restart services and verify 'Filesystem is fully operational for I/O.'

4. Example Commands

Dry-run test (no changes):

- ./Dictionary_Expansion_<*version*>.sh --dry-run

Fast dry-run (short timeouts):

- ./Dictionary_Expansion_*<version>*.sh --dry-run --fast-start

Perform live expansion:

- sudo ./Dictionary_Expansion_*<version>*.sh

5. Warnings & Best Practices

- Always perform a dry-run before live expansion.
- Ensure sufficient metadata disk and memory capacity.
- Monitor projected usage and avoid exceeding 90%.
- Do not interrupt services during live expansion.
- Check the log file (dictionary_expansion_<timestamp>.log) for details.