Booster Package: Memory Profiles & Performance Packages

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As Exalate environments grow in complexity, especially with advanced sync rules and intensive connection scripts (e.g., using Groovy), choosing the right **memory profile** becomes critical.

This page outlines the different memory configurations tested under controlled performance tests using 1000 issues and highlights the benefits of scalable packages we now offer — including expanded local storage tiers.

Performance Test Overview

We ran intensive sync operations on Exalate nodes using customized Groovy scripts to simulate real-world enterprise-grade workloads. The following table summarizes the **average processing time per item** across four memory profiles when processing 1000 items. The test in use is called the ping-pong test.

Profile	Per Item
MEDIUM (Default)	24.7 – 38.8 seconds
HIGH	18.3 – 23.1 seconds
ULTRA	11.4 – 16.9 seconds
TITAN	6.2 – 10.1 seconds

Available Memory Profiles & Package Tiers

We offer memory configuration profiles as standalone or bundled packages:

Profile	Memory Allocation	Ideal For	Storage
MEDIUM	Default (1GB)	Small syncs, minimal scripts	1GB, fixed storage
HIGH	2GB	Medium projects, moderate script logic	1GB, expandable storage
ULTRA	4GB	Migration, API-heavy syncs	□ 5GB / 10GB
TITAN	8GB+	Large-scale migrations, enterprise automation	□ 10GB / 20GB

Use Cases

Here are real-world scenarios where performance tuning and expanded storage significantly improve results:

- **Migration Projects:** Move thousands of issues between platforms quickly and reliably. The **TITAN** profile paired with **20GB storage** ensures minimal downtime and error handling.
- **Automation with Groovy Scripts:** If you're using advanced Exalate rules (conditionals, field mapping, transformations), upgrading to **HIGH or ULTRA** profiles ensures scripts are executed faster with fewer memory interruptions.
- **High-Frequency Syncs:** For continuous integration use cases where synchronization happens every few seconds (e.g., DevOps workflows), profiles like **ULTRA** are recommended.
- **Bulk Updates & API Integration:** For platforms using Exalate's API for large batch operations or integrations, memory-intensive operations are best handled on **TITAN**.

Why Upgrade?

- □ Faster sync times
- □ Reduced timeouts and memory errors
- □ Better performance for advanced Groovy logic
- □ Scalable for migrations and long-term enterprise use
- □ Bundle with expanded persistent volume (local storage) to handle more attachments and logs

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Interested in Upgrading?

Contact us via the Support Portal or at sales@exalate.com to customize your Exalate environment with the right memory profile and storage plan for your needs.