Tuning and Scaling Elasticsearch

Since search engines benefit heavily from caching, their JVM memory profiles are substantially different from those of a JVM focused on serving content and web views (e.g., a JVM running Liferay DXP). In production environments, search engines and Liferay DXP should therefore always be on separate JVMs.

The following sections provide a synopsis of Elasticsearch configurations. Prior to deployment, we strongly recommend reading Elastic's documentation on production deployment.

You'll learn how to configure these settings:

- JVM
- File System
- Scale

Read on to get Elasticsearch humming with Liferay DXP!

JVM

In general, you should allocate 45% of the available system memory to Elasticsearch, up to a maximum of 31 GB. You should configure heap sizing by setting the `ES_HEAP_SIZE` environment variable. Also, the JVM vendor and version for the Elasticsearch server must be identical to those of the Liferay DXP server.

File System

You should configure your OS for at least 64,000 file descriptors (the default Linux value is 1024). Elasticsearch also uses NioFS and MMapFS. You must therefore ensure there is sufficient virtual memory available for memory-mapped files. Consult your system administrator for information on how to configure these values.

Scaling Your Deployment

search for data in exactly the same way. Read the definitive Elasticsearch guide, and understand the differences between indexing-intensive applications and search-intensive applications. Then you'll be able to predict usage patterns for your Liferay DXP indexes and design the optimally scaled and tuned cluster.

Always perform tests to ensure optimal configurations.

« Securing Elasticsearch with Shield

Installing Marvel for Elasticsearch »

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Sí No

Usuarios a los que les pareció útil: 0 de 0

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Liferay University
Forma a tu equipo en los puntos esenciales del uso de Liferay con videos detallados y ejercicios prácticos diseñados para simular una formación presencial

Aumenta tu conocimiento sobre el producto y el desarrollo gracias a expertos que te ayudarán a maximizar tu ROI

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