Hardware Considerations

> **ⓘ Production Environments**
>
> - 32Gbs minimum of RAM recommended
> - Minimum free on hard drive depending of the requirements of the project
>
> **Development and Testing Environments**
>
> - 8Gbs minimum of RAM recommended
> - 10Gbs minimum free on hard drive recommended

Hardware

Basic Aspire has a fairly small footprint. For evaluation purposes, it can run on your laptop. For most production implementations, we recommend:

- A 4-core server running 64-bit Linux or Windows
- Minimum of 8Gbs of RAM **(32Gbs recommended for production)** assigned to the Java Virtual Machine.
  - The memory can be modified at the startup files or check Run as a Windows Service or Run as a Linux Service if Aspire runs as a service.
  - 8GB is the minimum recommended for testing and lite Aspire instances. This may change depending of the content sources and the data to process.
- Minimal disk: Aspire itself currently runs in less than 1GB, we recommend a minimun of **10Gbs for development and testing environments**
  - We don't recommend the minimal disk space for production environments
  - *This value does not include logs or data generated due crawls or other component activity*
- Network connection speed of 100Mbps minimum, and preferred 1Gbps or 10Gbps

Factors Affecting Recommendations

What you need to run Aspire optimally in a complex, enterprise production environment depends on multiple factors, including:

- The total number of data sources to be crawled, and for each data source:
  - What type of repository holds the data (i.e. SharePoint, Documentum, RDBMS, etc.)
  - Total number of documents
  - Total number of bytes
  - How long an initial indexing crawl should take
  - How long a periodic incremental indexing crawl should take
  - Are real-time updates required?
  - Network speed between repository and Aspire server
- Data metrics for query client connections:
  - Number of client connections expected
  - Number of queries per second expected
  - Query latency times required / expected
  - Is authentication, authorization, and group expansion required for client search requests?
- Will distributed processing be required?

If you need assistance in sizing an Aspire Enterprise system, please contact your Search Technologies Account representative (we'd be happy to help).