

GRAYLOG SIZING GUIDELINES

Spend less, process more

Graylog's low cost of ownership enables you to collect, store, and analyze 100% of your log data. Our open source license means no software license fees for non-production or production use.

Common questions

How much storage do I need?

Log data is stored on the Elasticsearch server node(s). To calculate storage requirements simply multiply the daily Ingest rate by the number of days required. For example, 10 GB/day retained for 30 days requires 300 GB of storage.

Can I "stack" servers?

The number of Graylog or Elasticsearch servers shown in the chart below can be physically and logically combined or "stacked".

Is this a high availability setup?

For HA requirements, add one Graylog server and one ES server to each config in chart below. For MongoDB, configure three total instances on Graylog server nodes.

What about MongoDB?

MongoDB runs on Graylog server node(s), only stores configuration data (user info, etc.), consumes very few resources and is not a scaling concern.

Sizing Guidelines

Size	Ingest Rate (GB/day)	GL Servers	GL CPU (Cores)	GL RAM (GB)	ES Servers*	ES CPU (Cores)	ES RAM (GB)
XS - Extra Small	< 1	1	4	4	n/a**	n/a**	n/a**
SM - Small	1 - 10	1	8	8	1	8	24
MED - Medium	10 - 50	2	8	16	2	16	32
LG - Large	50 - 100	2	16	16	4	16	32
XL - Extra Large	> 100	3	16	16	6	16	32

Assumptions and footnotes

* High IOPS storage such as SSD are recommended for Elasticsearch servers

** Elasticsearch server should be a separate server from Graylog server, except for XS size

Note: Graylog server storage requirement is 100 GB for all sizes. This sizing guide assumes 30 day retention period, smaller or larger retention periods will directly affect storage requirements on Elasticsearch servers.