

What is claimed is:

1. A computer-implemented method comprising:
monitoring data usage on a storage allocation in a networked
5 environment, the storage allocation having a number of partitions including at least one
partition;
determining whether the data usage on the at least one partition included
in the storage allocation exceeds a specified threshold;
modifying at least one of a size of the at least one partition or the number
10 of partitions included in the storage allocation;
directing network traffic associated with the storage allocation away
from a portion of the storage allocation associated with the modifying of the at least one
of the size or the number; and
directing the network traffic to the portion of the storage allocation
15 associated with the modifying when the modifying is complete.
2. The computer-implemented method of claim 1, further comprising:
detecting that a size of a search index for the storage allocation exceeds a
specified index size threshold; and
20 updating the search index for the storage allocation based on the
modifying the at least one of the size of the at least one partition or the number of
partitions included in the storage allocation.
3. The computer-implemented method of claim 2, wherein the updating the
25 search index includes rebuilding the search index for the storage
allocation to reflect the modifying the at least one of the size of the at
least one partition or the number of partitions included in the storage
allocation.
- 30 4. The computer-implemented method of claim 1, wherein the data usage
includes at least one of an amount of data being stored on the storage
allocation or a rate at which data is being manipulated on the storage
allocation.

5. The computer-implemented method of claim 4, wherein the specified threshold includes at least one of a specified amount threshold or a specified rate threshold, and wherein the data usage exceeds the specified threshold when there is an occurrence of at least one of the amount of data being stored exceeds the specified amount threshold or the rate at which data is being manipulated exceeds the specified rate threshold.
6. The computer-implemented method of claim 5, wherein the specified threshold is calculated based at least in part on information about historical data usage.
7. The computer-implemented method of claim 1, further comprising:
determining that an amount of network traffic directed to the storage allocation is above a specified traffic threshold; and
modifying the storage allocation based on the amount of network traffic.
8. The computer-implemented method of claim 7, wherein the network traffic includes search query traffic for searching data stored on the storage allocation.
9. The computer-implemented method of claim 7, wherein the modifying the storage allocation based on the amount of network traffic includes at least one of modifying the size of the at least one partition, modifying the number of partitions, or replacing at least one partition included in the number of partitions with at least one partition having different specifications.
10. The computer-implemented method of claim 9, wherein the different specifications include at least one of a different CPU power, a different capacity of RAM, a different capacity of hard disk space, or a different capacity of bandwidth.
11. The computer-implemented method of claim 1, wherein the modifying the at least one of the size of the at least one partition or the number of

partitions includes increasing at least one of the size of the at least one partition or the number of partitions, wherein the increasing the size of the at least one partition is performed if the size of the at least one partition is below a maximum partition size threshold, and wherein the increasing the number of the partitions is performed if the size of the at least one partition is at the maximum partition size threshold.

12. The computer-implemented method of claim 1, wherein the modifying the at least one of the size of the at least one partition or the number of partitions includes decreasing at least one of the size of the at least one partition or the number of partitions, wherein the decreasing the number of the partitions is performed if the number of the partitions is greater than one partition, and wherein the decreasing the size of the at least one partition is performed if the number of the partitions is one partition.

13. The computer-implemented method of claim 1, further comprising:
determining a CPU usage of the storage allocation, wherein the modifying the at least one of the size or the number is based on at least one of the data usage on the storage allocation or the determined CPU usage of the storage allocation.

14. The computer-implemented method of claim 1, further comprising:
modifying a configuration of the storage allocation based on at least one of a configuration associated with the data usage or a user-initiated input.

15. The computer-implemented method of claim 1, further comprising:
determining when to perform the modifying of the at least one of the size or the number based on resources available to the storage allocation.

What is claimed is:

1. A system comprising:

at least one communications transceiver;

one or more storage allocations;

at least one processor; and

a memory device including instructions that, when executed by the at least one processor, cause the system to:

receive, via the at least one communications transceiver, data of a first format to be indexed, the data including a plurality of data fields;

analyze data in each of the plurality of data fields to determine a value associated with each data field, each respective value corresponding to one of an amount of integer characters reaching an integer threshold, an amount of alphabetic characters being within a specified literal amount range, or an amount of integer and alphabetic characters above a text amount threshold;

determine from a plurality of types of data fields, a type of a data field for each of the plurality of data fields; determine one or more search options to be enabled for each data field of the plurality of data fields based at least in part on the type of the data field for each of the plurality of data fields, the one or more search options including an option to include a respective data field in a search index;

generate an index configuration for the data based at least in part on the one or more search options;

generate a search index for the data based at least in part on the index configuration for the data; and

convert the data from the first format to a second format to generate converted data, the second format being compatible with the search index, wherein the converted data is stored in at least one storage location.

2. The system of claim 1, wherein the instructions to convert the data from the first format to the second format cause the system to further:
compare the first format with the second format; and
modify at least one data tag associated with the first format to correspond to at least one data tag associated with the second format.

3. The system of claim 1, wherein the instructions to determine the type of the data field cause the system to further:
determine that a value associated with the data field has an amount of characters above a specified character-type threshold; and
determine the type of the data field to be a type corresponding to the character-type threshold.

4. The system of claim 3, wherein the plurality of types of data fields includes at least one of an integer type, a text type, a literal type, a geolocation type, a time type, a date type, or a floating point number type.

5. The system of claim 4, wherein the character-type threshold includes:
an integer amount threshold;
a text amount threshold;
a text distinct amount threshold;
a text distinct percentage threshold; and
a text length threshold.

6. The system of claim 1, wherein the one or more search options include at least one of an option to include the data field in the search index to be generated, an option to calculate a facet count for the data field, or an option to provide a value associated with the data field in response to a relevant search query.

7. The system of claim 6, wherein the determining the one or more search options to be enabled comprises:

enabling the option to include the data field in the search index to be generated, based at least in part on receiving an input indicating that the data field is to be included in the search index or determining a type of the data field to be a literal type;

enabling the option to calculate the facet count for the data field, based at least in part on determining that a quantity for a distribution of a plurality of values associated with the data field is below a specified facet count upper threshold; or

enabling the option to provide the value associated with the data field in response to the relevant search query, based at least in part on at least one of receiving a signal included in the data field indicating that the value associated with the data field is to be provided or determining that a length of the value associated with the data field is below a specified return value length threshold.

8. A computer-implemented method comprising:

receiving data to be indexed, the data including a plurality of data fields;

analyzing data in a first format in each of the plurality of data fields to determine a value associated with each data field, each respective value corresponding to one of an amount of integer characters reaching an integer threshold, an amount of alphabetic characters being within a specified literal amount range, or an amount of integer and alphabetic characters above a text amount threshold;

determining from a plurality of types of data fields, a type of a data field for each of the plurality of data fields;

determining one or more search options to be enabled for each data field of the plurality of data fields based at least in part on the type of the data field for each of the plurality of data fields, the one or more search options including an option to include a respective data field in a search index;

generating an index configuration for the data based at least in part on the one or more search options;

generating a search index for the data based at least in part on the index configuration for the data; and

converting the data from the first format to a second format to generate converted data, the second format being compatible with the search index, wherein the converted data is stored in at least one storage location.

9. The computer-implemented method of claim 8, wherein the converting the data from the first format to the second format comprises:
comparing the first format with the second format; and
modifying at least one data tag associated with the first format to correspond to at least one data tag associated with the second format.

10. The computer-implemented method of claim 8, wherein the determining the type of the data field comprises:
determining that a value associated with the data field has an amount of characters above a specified character-type threshold; and
determining the type of the data field to be a type corresponding to the character-type threshold.

11. The computer-implemented method of claim 10, wherein the plurality of types of data fields includes at least one of an integer type, a text type, a literal type, a geolocation type, a time type, a date type, or a floating point number type.

12. The computer-implemented method of claim 11, wherein the character-type threshold includes:
an integer amount threshold;

a text amount threshold;

a text distinct amount threshold;

a text distinct percentage threshold; and

a text length threshold.

13. The computer-implemented method of claim 8, wherein the one or more search options include at least one of an option to include the data field in the search index to be generated, an option to calculate a facet count for the data field, or an option to provide a value associated with the data field in response to a relevant search query.

14. The computer-implemented method of claim 13, wherein the determining the one or more search options to be enabled comprises:

enabling the option to include the data field in the search index to be generated, based at least in part on receiving an input indicating that the data field is to be included in the search index or determining a type of the data field to be a literal type;

enabling the option to calculate the facet count for the data field, based at least in part on determining that a quantity for a distribution of a plurality of values associated with the data field is below a specified facet count upper threshold; or

enabling the option to provide the value associated with the data field in response to the relevant search query, based at least in part on at least one of receiving a signal included in the data field indicating that the value associated with the data field is to be provided or determining that a length of the value associated with the data field is below a specified return value length threshold.

15. A computer-implemented method comprising:

receiving data to be indexed, the data including a plurality of data fields;

analyzing data in a first format in each of the plurality of data fields to determine a value associated with each data field, each respective value corresponding to one of an

amount of integer characters reaching an integer threshold, an amount of alphabetic characters being within a specified literal amount range, or an amount of integer and alphabetic characters above a text amount threshold;

determining from a plurality of types of data fields, a type of a data field for each of the plurality of data fields;

enabling one or more search options for each of the data fields of the plurality of data fields based at least in part upon the type of the data field for each of the plurality of data fields, the one or more search options including an option to include a respective data field in a search index;

generating an index configuration for the data based at least in part on the one or more search options;

generating a search index for the data based at least in part on the index configuration for the data

converting the data from the first format to a second format to generate converted data, the second format being compatible with the search index, wherein the converted data is stored in at least one storage location.

16. The computer-implemented method of claim 15, wherein the
converting the data from the first format to the second format comprises:

comparing the first format with the second format; and

modifying at least one data tag associated with the first format to correspond to at least one data tag associated with the second format.

17. The computer-implemented method of claim 15, wherein the one or more search options include at least one of an option to include a respective data field in a search index to be generated, an option to calculate a facet count for the respective data field, or an option to provide one or more values associated with the respective data field.

What is claimed is:

1. A system comprising:
 - at least one communications transceiver;
 - one or more storage allocations;
 - at least one processor; and
 - a memory device including instructions that, when executed by the at least one processor, cause the system to:
 - receive, via the at least one communications transceiver, data of a first format to be indexed, the data including a plurality of data fields;
 - analyze data in each of the plurality of data fields to determine a value associated with each data field, each respective value corresponding to one of an amount of integer characters reaching an integer threshold, an amount of alphabetic characters being within a specified literal amount range, or an amount of integer and alphabetic characters above a text amount threshold;
 - determine from a plurality of types of data fields, a type of a data field for each of the plurality of data fields; determine one or more search options to be enabled for each data field of the plurality of data fields based at least in part on the type of the data field for each of the plurality of data fields, the one or more search options including an option to include a respective data field in a search index;
 - generate an index configuration for the data based at least in part on the one or more search options;
 - generate a search index for the data based at least in part on the index configuration for the data; and
 - convert the data from the first format to a second format to generate converted data, the second format being compatible with the search index, wherein the converted data is stored in at least one storage location.

2. The system of claim 1, wherein the instructions to convert the data from the first format to the second format cause the system to further:
compare the first format with the second format; and
modify at least one data tag associated with the first format to correspond to at least one data tag associated with the second format.

3. The system of claim 1, wherein the instructions to determine the type of the data field cause the system to further:
determine that a value associated with the data field has an amount of characters above a specified character-type threshold; and
determine the type of the data field to be a type corresponding to the character-type threshold.

4. The system of claim 3, wherein the plurality of types of data fields includes at least one of an integer type, a text type, a literal type, a geolocation type, a time type, a date type, or a floating point number type.

5. The system of claim 4, wherein the character-type threshold includes:
an integer amount threshold;
a text amount threshold;
a text distinct amount threshold;
a text distinct percentage threshold; and
a text length threshold.

6. The system of claim 1, wherein the one or more search options include at least one of an option to include the data field in the search index to be generated, an option to calculate a facet count for the data field, or an option to provide a value associated with the data field in response to a relevant search query.

7. The system of claim 6, wherein the determining the one or more search options to be enabled comprises:

enabling the option to include the data field in the search index to be generated, based at least in part on receiving an input indicating that the data field is to be included in the search index or determining a type of the data field to be a literal type;

enabling the option to calculate the facet count for the data field, based at least in part on determining that a quantity for a distribution of a plurality of values associated with the data field is below a specified facet count upper threshold; or

enabling the option to provide the value associated with the data field in response to the relevant search query, based at least in part on at least one of receiving a signal included in the data field indicating that the value associated with the data field is to be provided or determining that a length of the value associated with the data field is below a specified return value length threshold.

8. A computer-implemented method comprising:

receiving data to be indexed, the data including a plurality of data fields;

analyzing data in a first format in each of the plurality of data fields to determine a value associated with each data field, each respective value corresponding to one of an amount of integer characters reaching an integer threshold, an amount of alphabetic characters being within a specified literal amount range, or an amount of integer and alphabetic characters above a text amount threshold;

determining from a plurality of types of data fields, a type of a data field for each of the plurality of data fields;

determining one or more search options to be enabled for each data field of the plurality of data fields based at least in part on the type of the data field for each of the plurality of data fields, the one or more search options including an option to include a respective data field in a search index;

generating an index configuration for the data based at least in part on the one or more search options;

generating a search index for the data based at least in part on the index configuration for the data; and

converting the data from the first format to a second format to generate converted data, the second format being compatible with the search index, wherein the converted data is stored in at least one storage location.

9. The computer-implemented method of claim 8, wherein the converting the data from the first format to the second format comprises:
comparing the first format with the second format; and
modifying at least one data tag associated with the first format to correspond to at least one data tag associated with the second format.

10. The computer-implemented method of claim 8, wherein the determining the type of the data field comprises:
determining that a value associated with the data field has an amount of characters above a specified character-type threshold; and
determining the type of the data field to be a type corresponding to the character-type threshold.

11. The computer-implemented method of claim 10, wherein the plurality of types of data fields includes at least one of an integer type, a text type, a literal type, a geolocation type, a time type, a date type, or a floating point number type.

12. The computer-implemented method of claim 11, wherein the character-type threshold includes:
an integer amount threshold;

a text amount threshold;
a text distinct amount threshold;
a text distinct percentage threshold; and
a text length threshold.

13. The computer-implemented method of claim 8, wherein the one or more search options include at least one of an option to include the data field in the search index to be generated, an option to calculate a facet count for the data field, or an option to provide a value associated with the data field in response to a relevant search query.

14. The computer-implemented method of claim 13, wherein the determining the one or more search options to be enabled comprises:

enabling the option to include the data field in the search index to be generated, based at least in part on receiving an input indicating that the data field is to be included in the search index or determining a type of the data field to be a literal type;

enabling the option to calculate the facet count for the data field, based at least in part on determining that a quantity for a distribution of a plurality of values associated with the data field is below a specified facet count upper threshold; or

enabling the option to provide the value associated with the data field in response to the relevant search query, based at least in part on at least one of receiving a signal included in the data field indicating that the value associated with the data field is to be provided or determining that a length of the value associated with the data field is below a specified return value length threshold.

15. A computer-implemented method comprising:

receiving data to be indexed, the data including a plurality of data fields;

analyzing data in a first format in each of the plurality of data fields to determine a value associated with each data field, each respective value corresponding to one of an

amount of integer characters reaching an integer threshold, an amount of alphabetic characters being within a specified literal amount range, or an amount of integer and alphabetic characters above a text amount threshold;

determining from a plurality of types of data fields, a type of a data field for each of the plurality of data fields;

enabling one or more search options for each of the data fields of the plurality of data fields based at least in part upon the type of the data field for each of the plurality of data fields, the one or more search options including an option to include a respective data field in a search index;

generating an index configuration for the data based at least in part on the one or more search options;

generating a search index for the data based at least in part on the index configuration for the data

converting the data from the first format to a second format to generate converted data, the second format being compatible with the search index, wherein the converted data is stored in at least one storage location.

16. The computer-implemented method of claim 15, wherein the converting the data from the first format to the second format comprises:

comparing the first format with the second format; and

modifying at least one data tag associated with the first format to correspond to at least one data tag associated with the second format.

17. The computer-implemented method of claim 15, wherein the one or more search options include at least one of an option to include a respective data field in a search index to be generated, an option to calculate a facet count for the respective data field, or an option to provide one or more values associated with the respective data field.