

sumologic-documentation/docs/search/search-query-language/group-aggregate-operators/values.md at 7b53abb04b0e84a5189b3ef4320a95c27c2a5a2f · SumoLogic/sumologic-documentation

github.com/SumoLogic/sumologic-documentation/blob/7b53abb04b0e84a5189b3ef4320a95c27c2a5a2f/docs/search/search-query-language/group-aggregate-operators/values.md

sumo logic

id: values

title: values Grouping Operator

sidebar_label: values

import useBaseUrl from '@docusaurus/useBaseUrl';

The `values` operator provides all the distinct values of a field. This allows you to quickly identify and understand all the values a field has in your data. Additionally, you have the option to group by other fields of interest.

Syntax

```
```sql
```

values(<field>) [by <group\_by\_fields>] [as <field\_name>]

...

### ### Response Field

The response field separates each value with a new line character and places them in lexicographical order as follows:

- \* Numbers before letters
- \* Numbers sorted in ascending based on the value of the first digit
- \* Letters sorted in alphabetical order
- \* Uppercase before lowercase letters

This is an example of a response field with IP addresses:

<img src={useBaseUrl('img/search/searchquerylanguage/group-aggregate-operators/values-operator-response-field-example.png')} alt="Example of a response field with IP addresses" style={{border: '1px solid gray'}} width="150

" />

### ### Limitation

- \* The first 100 distinct values are returned for a field.

## ## Examples

### ### Operational Analytics

To identify all IP addresses by region:

...

\_sourceCategory=Labs/\*

| parse regex "(?<ip\_address>\b\d{1,3}\.\d{1,3}\.\d{1,3}\.\d{1,3})"

| values(ip\_address) by region

...

To identify all IP addresses and namespaces by region:

...

```
_sourceCategory=Labs/*
```

```
| parse regex "(?<ip_address>\b\d{1,3}\.\d{1,3}\.\d{1,3}\.\d{1,3})"
```

```
| values(ip_address) as val_ip, values(namespace) as val_namespace by region
```

```
...
```

To identify all sources by error type in my stack that logged an error in the last 24 hours:

```
```sql
```

```
_sourceCategory=prod01*
```

```
| parse regex "(?i)(?<log_level>WARN|CRITICAL|ERROR|FATAL)"
```

```
| toUppercase(log_level)
```

```
| _sourceCategory as sc
```

```
| count as errors, values(sc) by log_level
```

```
...
```

To identify users that logged in from more than one country in the last 24 hours with a list of countries logged in from:

```
```sql
```

```
_sc=org-service "login"
```

```
| parse username
```

```
| geolookup country on ip=login_ip
```

```
| count_distinct(country), values(country) by username
```

```
| where count_distinct > 1
```

```
...
```

### ### Security Analytics

To know if my services have interacted with any known IOC threats.

```
```sql
```

```
...| values(IOC) by src_ip
```

...

To understand what ports were scanned or communicated over by one

``src_ip``.

````sql`

`_source="PatchingInfo" and _collector="AWS SecurityHub Non Prod"`

`| json field=_raw "port_name" as ports`

`| json field=_raw "src_ip" as src_ip`

`| values(ports) by ami`

`````