

## Report 1 - Date Range Listener

### Requirements

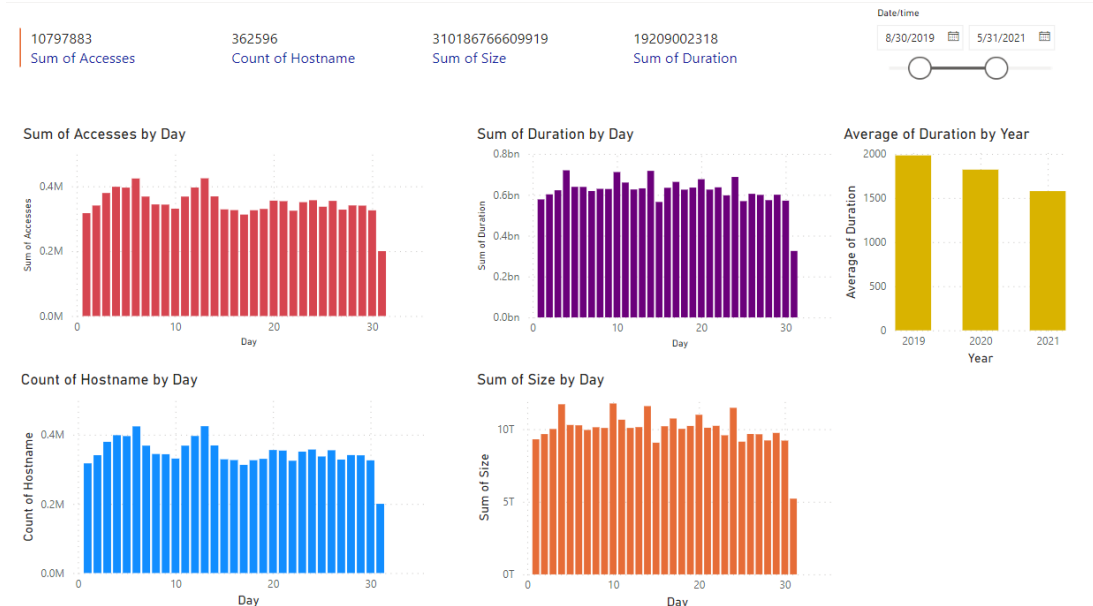
A report that lets the user pick a date range (begin and end) and a reporting interval for grouping the data within the selected date range.

Report outputs consist of a table with these columns:

- Accesses – raw tally of hosts accessing the stream in a given date range and interval
- Visitors – tally of unique hostnames accessing the stream in a given date range and interval
- Size – total of GBs sent in a given date range and interval
- Duration – total seconds spent listening in a given date range and interval
- Average duration – the average of time spent listening divided by the number of Accesses in a given date range and interval

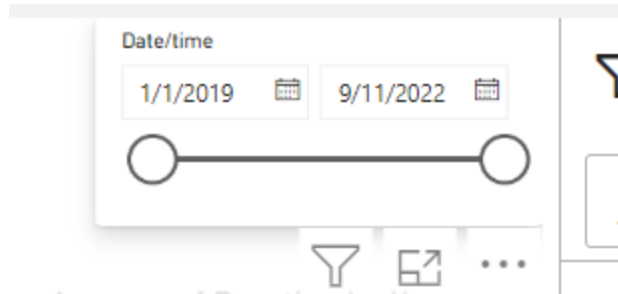
Report filtering criteria are:

- Date Range: Begin and end date – where begin date  $\leq$  access date  $<$  end date. We will only be looking at whole days so begin date is midnight of the date and the end date is midnight of the next day. So with begin date = 2020-09-01 and end date = 2020-09-30 we include all records with: Access Date/time between 2020-09-01 00:00:00 and 2020-10-01 00:00:00 or 2020-09-01 00:00:00  $\leq$  Date/time  $<$  2020-10-01 00:00:00

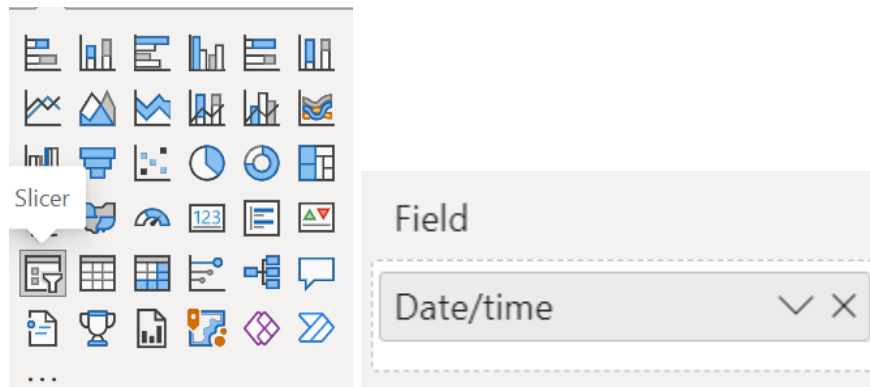


## Making the Report

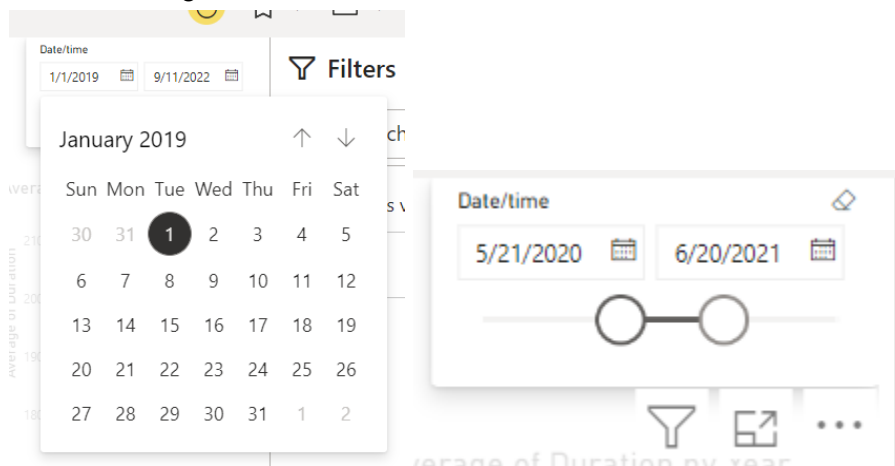
### Slicer with Date/Time



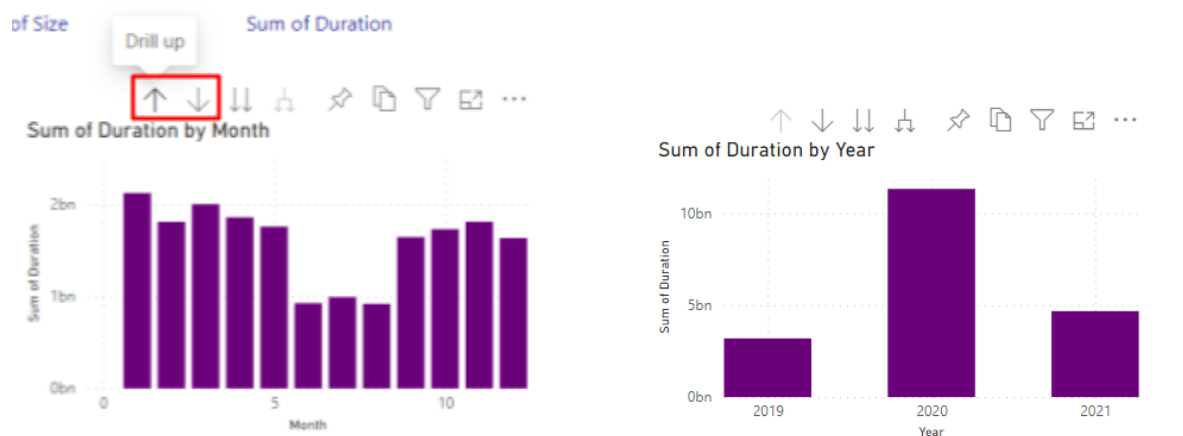
1. From the visualizations tab, add the slicer.
2. Add the field, Date/Time.



3. On the report, change the date range by dragging the slicer or entering a start date and end date using the calendar.



4. You can also use the *Drill Up* and *Drill Down* buttons to change the graph based on the next level of date hierarchy in the report.



*Multi-Row Card with Sum of Accesses, Count of Hostname, Sum of Size, and Sum of Duration*

20210858  
Sum of Accesses

637895  
Count of Hostname

619538261253537  
Sum of Size

38368345119  
Sum of Duration

1. From the visualizations tab, add a multi-row card.
2. Add the fields:
  - a. Accesses
  - b. Hostname
  - c. Size
  - d. Duration

Multi-row card

Fields

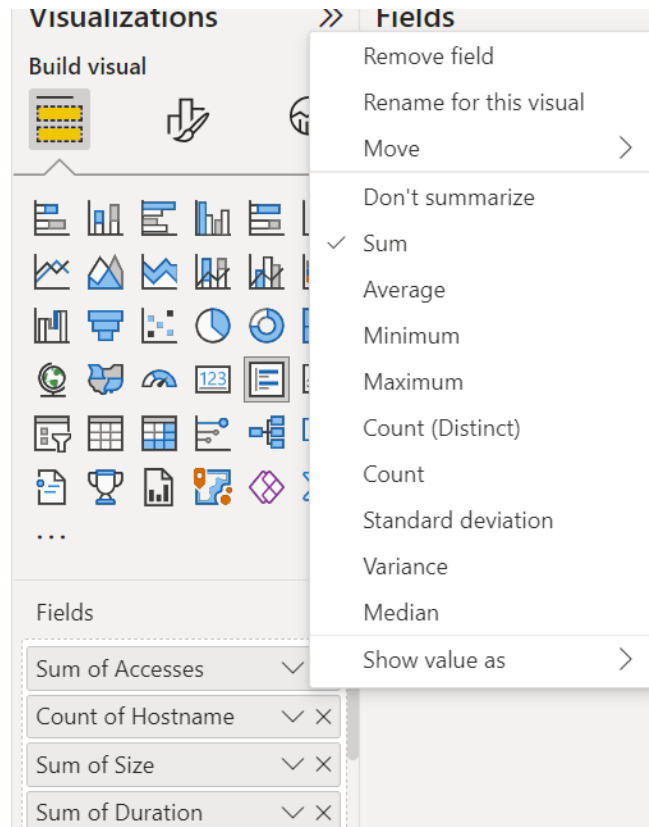
Sum of Accesses

Count of Hostname

Sum of Size

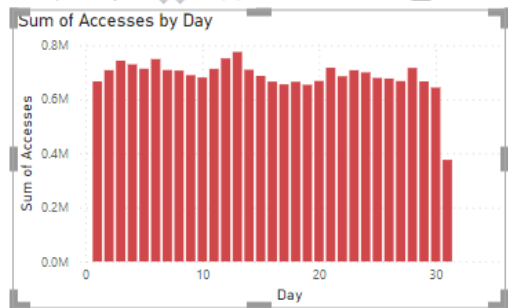
Sum of Duration

3. Using the dropdown next to Accesses, Hostname, Size, and Duration, change the fields to:
- a. Sum of Accesses
  - b. Count of Hostname
  - c. Sum of Size
  - d. Sum of Duration



## Bar Charts

- Sum of Accesses



## Visualizations

Build visual

X-axis

- Year
- Month
- Week No
- Date/time
- Day

Y-axis

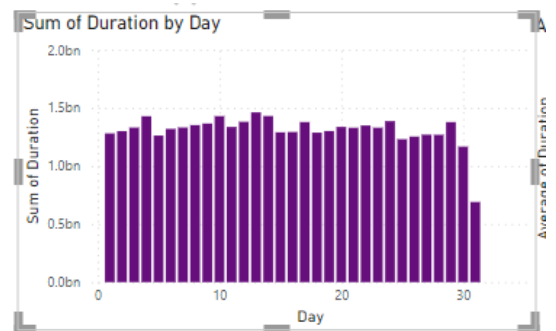
- Sum of Accesses

## Fields

Search

- Append1
- Append2
  - Accesses
  - Authenticat
  - Date/time
    - Date Hie
      - Year
      - Quart
      - Month
      - Day
      - Day\_Name
      - Day\_of\_Wee
      - Duration
      - Hostname
      - Hour
      - Month

- Sum of Duration



## Visualizations

Build visual

...

## Fields

Search

- Append1
- Append2
  - ☐ Σ Accesses
  - ☐ Authenticated ...
- Date/time
  - Date Hierarchy
    - ☐ Σ Year
    - ☐ Quarter
    - ☐ Σ Month
    - ☒ Day
  - Day\_Name
  - Σ Day\_of\_Week
  - ☒ Σ Duration
  - Hostname
  - Σ Hour
  - ☒ Σ Month

### X-axis

Year

Month

Week No

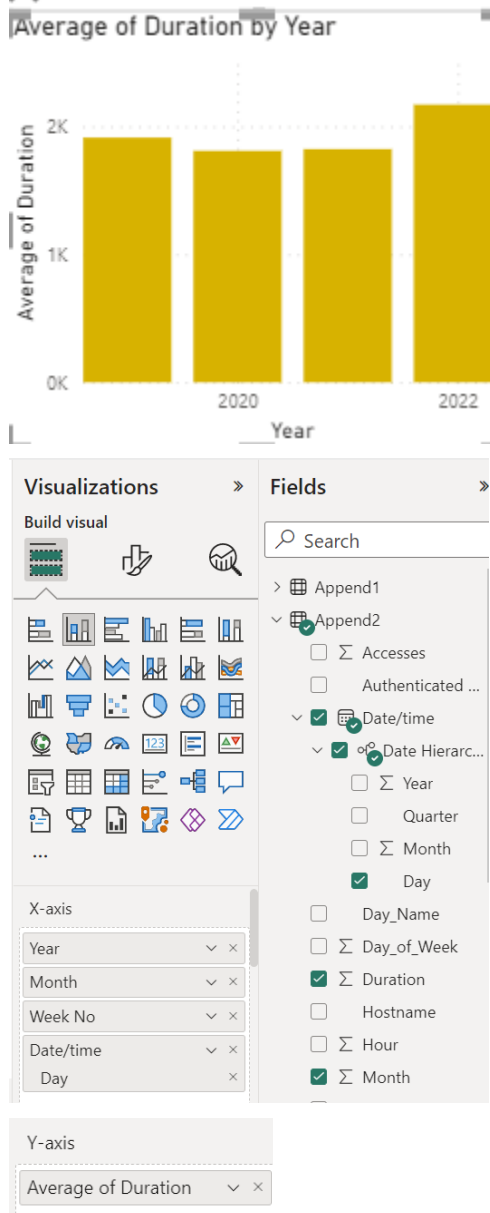
Date/time

Day

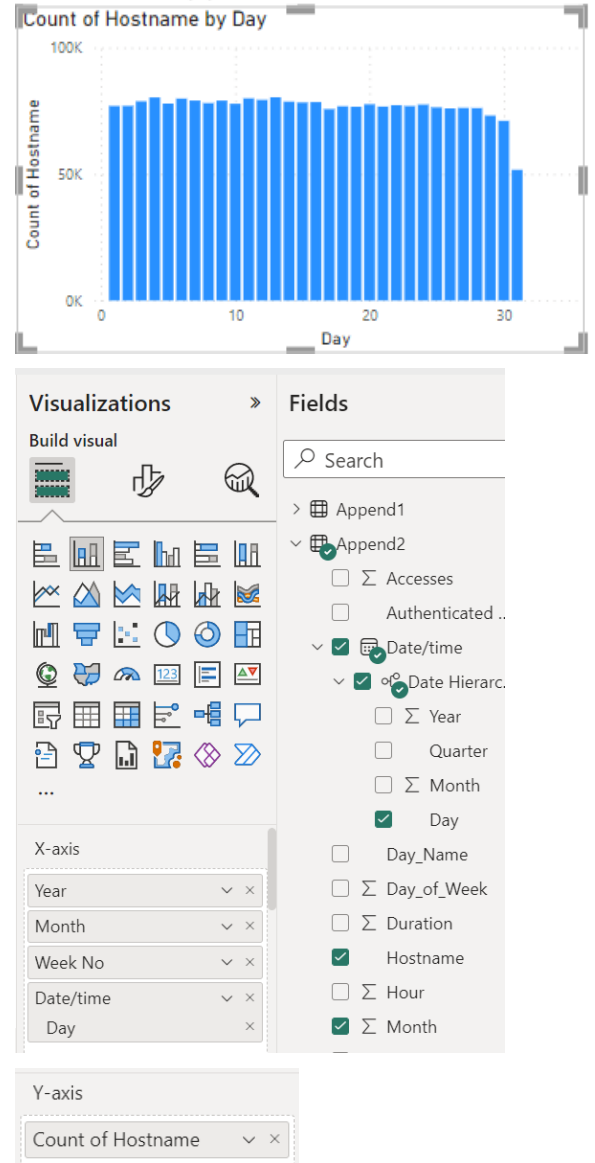
### Y-axis

Sum of Duration

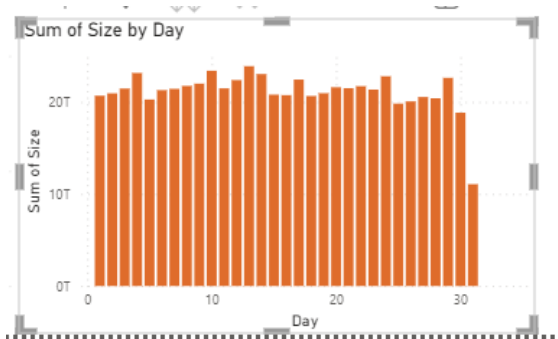
- Average Duration



- Count of Hostname



- Sum of Size



**Visualizations** »

Build visual

**Fields** »

Search

> Append1

✓ Append2

- ☐ Σ Accesses
- ☐ Authenticated ...
- ✓ Date/time
- ✓ Date Hierarc...
- ☐ Σ Year
- ☐ Quarter
- ☐ Σ Month
- ✓ Day
- ☐ Day\_Name
- ☐ Σ Day\_of\_Week
- ☐ Σ Duration
- ☐ Hostname
- ☐ Σ Hour
- ✓ Σ Month

X-axis

Year

Month

Week No

Date/time

Day

Y-axis

Sum of Size