bigbrotr_data_overview

July 3, 2025

1 Bigbrotr Database Data Overview

1.1 Database Schema

'Events'

column_name	data_type	
:	:	
id	character	
pubkey	character	
created_at	bigint	
kind	integer	
tags	jsonb	
content	text	
sig	character	

'Events_relays'

column_n	ame	data_type
:		:
event_id	. 1	character
relay_ur	1	text
seen_at	1	bigint

'Relay_metadata'

column_name	data_type
:	- :
relay_url	text
generated_at	bigint
connection_success	boolean
nip11_success	boolean
openable	boolean
readable	boolean
writable	boolean
rtt_open	integer
rtt_read	integer

rtt_write	integer	-
name	text	-
description	text	-
banner	text	- [
icon	text	- [
pubkey	text	- [
contact	text	- [
supported_nips	jsonb	- [
software	text	- [
version	text	- [
privacy_policy	text	-
<pre> terms_of_service</pre>	text	-
limitation	jsonb	- [
extra_fields	jsonb	- [

'Relays'

column_name	data_type
:	:
url	text
network	text
inserted_at	bigint

1.2 Row Counts per Table

	table	row_count
0	events_relays	11360328
1	events	6385152
2	relays	8865
3	relay_metadata	775

Analisi dello spazio per tabella:

TABELLA: events Numero righe: 6403135

Colonna	Avg (bytes)	Totale (GB)
id	65.00	0.39
pubkey	65.00	0.39
created_at	8.00	0.05
kind	4.00	0.02
tags	374.35	2.23
content	151.66	0.90
sig	132.00	0.79

Totale dati stimati: 4.77 GB

Indici:

Indice Size (GB)
events_pkey 0.74
idx_events_pubkey 0.19
idx_events_created_at 0.16
idx_events_kind 0.06
idx_events_kind_created_at 0.24

Totale indici: 1.41 GB

Totale complessivo stimato: 6.18 GB

TABELLA: relays
Numero righe: 8865

 Colonna
 Avg (bytes)
 Totale (GB)

 url
 30.61
 0.00

 network
 8.48
 0.00

 inserted_at
 8.00
 0.00

Totale dati stimati: 0.00 GB

Indici:

Indice Size (GB) relays_pkey 0.00

Totale indici: 0.00 GB

Totale complessivo stimato: 0.00 GB

TABELLA: events_relays
Numero righe: 11369482

 Colonna
 Avg (bytes)
 Totale (GB)

 event_id
 65.00
 0.69

 relay_url
 24.40
 0.26

 seen_at
 8.00
 0.08

Totale dati stimati: 1.03 GB

Indici:

Indice Size (GB)
events_relays_pkey 1.65
idx_events_relays_event_id 0.82
idx_events_relays_relay_url 0.07
idx_events_relays_seen_at 0.10

Totale indici: 2.65 GB

Totale complessivo stimato: 3.68 GB

TABELLA: relay_metadata

Numero righe: 775

Colonna Avg (bytes) Totale (GB) relay_url 28.68 0.00

generated_at	8.00	0.00
connection_success	1.00	0.00
nip11_success	1.00	0.00
openable	1.00	0.00
readable	1.00	0.00
writable	1.00	0.00
rtt_open	4.00	0.00
rtt_read	4.00	0.00
rtt_write	4.00	0.00
name	18.22	0.00
description	50.57	0.00
banner	1.00	0.00
icon	54.49	0.00
pubkey	60.84	0.00
contact	23.29	0.00
supported_nips	9.00	0.00
software	40.79	0.00
version	7.72	0.00
privacy_policy	31.00	0.00
terms_of_service	25.00	0.00
limitation	146.40	0.00
extra_fields	57.69	0.00
Totalo dati atimati.	0 00 CB	

Totale dati stimati: 0.00 GB

Indici:

Indice	Size	(GB)	
relay_metadata_pkey		0.00	
idx_relay_metadata_relay_url		0.00	
idx_relay_metadata_generated_at		0.00	
idx_relay_metadata_connection_suc	cess		0.00
<pre>idx_relay_metadata_nip11_success</pre>		0.00	
m . 7 . 11 . 0 00 0D			

Totale indici: 0.00 GB

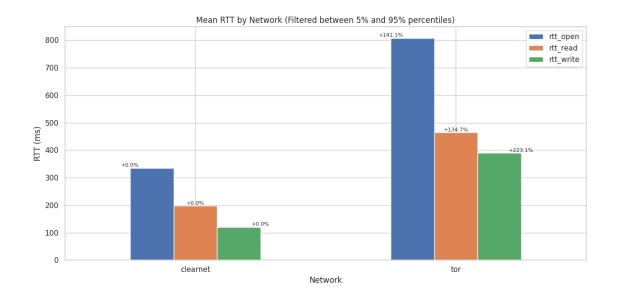
Totale complessivo stimato: 0.00 GB

1.3 Relays Overview

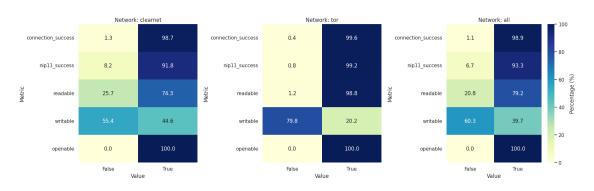
Total relays: 8865, with metadata: 1238 (13.97%) Network distribution for relays with metadata:

- clearnet: 990 (79.97%)

- tor: 248 (20.03%)



Percentage of Relays per Metric



Network: clearnet					
connection_success	nip11_success	readable	writable	openable	
True	True	True	True	True	420
			False	True	276
		False	False	True	197
	False	False	False	True	49
		True	False	True	19
			True	True	11
	True	False	True	True	3
	False	False	True	True	2

Name: count, dtype: int64

Network: tor

connection_success nip11_success readable writable openable

True	True	True	False	True	192
			True	True	50
		False	False	True	3
	False	True	False	True	2

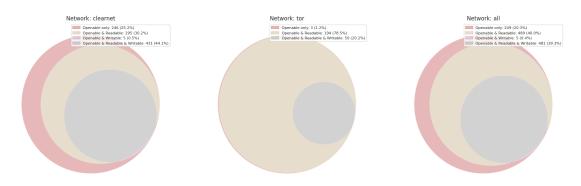
Name: count, dtype: int64

Network: all

connection_success	nip11_success	readable	writable	openable	
True	True	True	True	True	470
			False	True	468
		False	False	True	200
	False	False	False	True	49
		True	False	True	21
			True	True	11
	True	False	True	True	3
	False	False	True	True	2

Name: count, dtype: int64

Relay Status Combinations



Percentage of Relays per NIP-11 Column and Network (Sorted by Clearnet-Tor Gap)					
description	88.4	20.6	74.8		
pubkey	73.7	9.7	60.9		
contact	62.8	8.1	51.9		
icon	41.1	5.2	33.9		
extra_fields	56.6	85.9	62.4		
limitation software	63.1	84.7	67.4		
Software	91.3	99.6	93.0		
NP-11	91.4	99.6	93.1		
version	91.1	99.2	92.7		
banner	5.6	0.0	4.4		
supported_nips	0.1	0.4	0.2		
terms_of_service	0.7	0.8	0.7		
privacy_policy	0.4	0.4	0.4		
	clearnet	tor Network	all		

F	Percentage of Relays per Lin	nitation Type and Network (0	Ordered by Clearnet-Tor Gap)	
restricted_writes	30.5	79.0	40.2	- 80
payment_required	45.2	83.5	52.8	
max_limit	31.8	2.0	25.8	- 70
max_message_length	32.0	2.4	26.1	- 70
max_subscriptions	31.5	2.4	25.7	
auth_required	18.7	1.2	15.2	- 60
max_event_tags	15.1	1.2	12.3	
σ max_filters	14.1	0.4	11.4	- 50 🙃
min_pow_difficulty max_content_length max_subid_length	13.6	0.8	11.1	- 05 06 Percentage (%)
max_content_length	12.8	0.4	10.3	ntag
max_subid_length	10.4	0.8	8.5	erce
min_prefix	8.8	0.4	7.1	
created_at_lower_limit	6.6	0.4	5.3	- 30
created_at_upper_limit	6.6	0.4	5.3	
max_event_time_older_than_now	1.1	0.0	0.9	- 20
max_event_time_newer_than_now	1.1	0.0	0.9	
max_subscription	0.6	0.0	0.5	- 10
max_file_size	0.1	0.0	0.1	
default_limit	0.1	0.0	0.1	- 0
	clearnet	tor Network	all	- 0

