

GUARDIUM ADMINISTRATION

SECOND INSTALLMENT - PART II -

Maintaining a Balanced Environment

Handling UnBalanced Collectors

#3.2 : HOW TO DETECT CONTRIBUTING SERVERS/AGENT

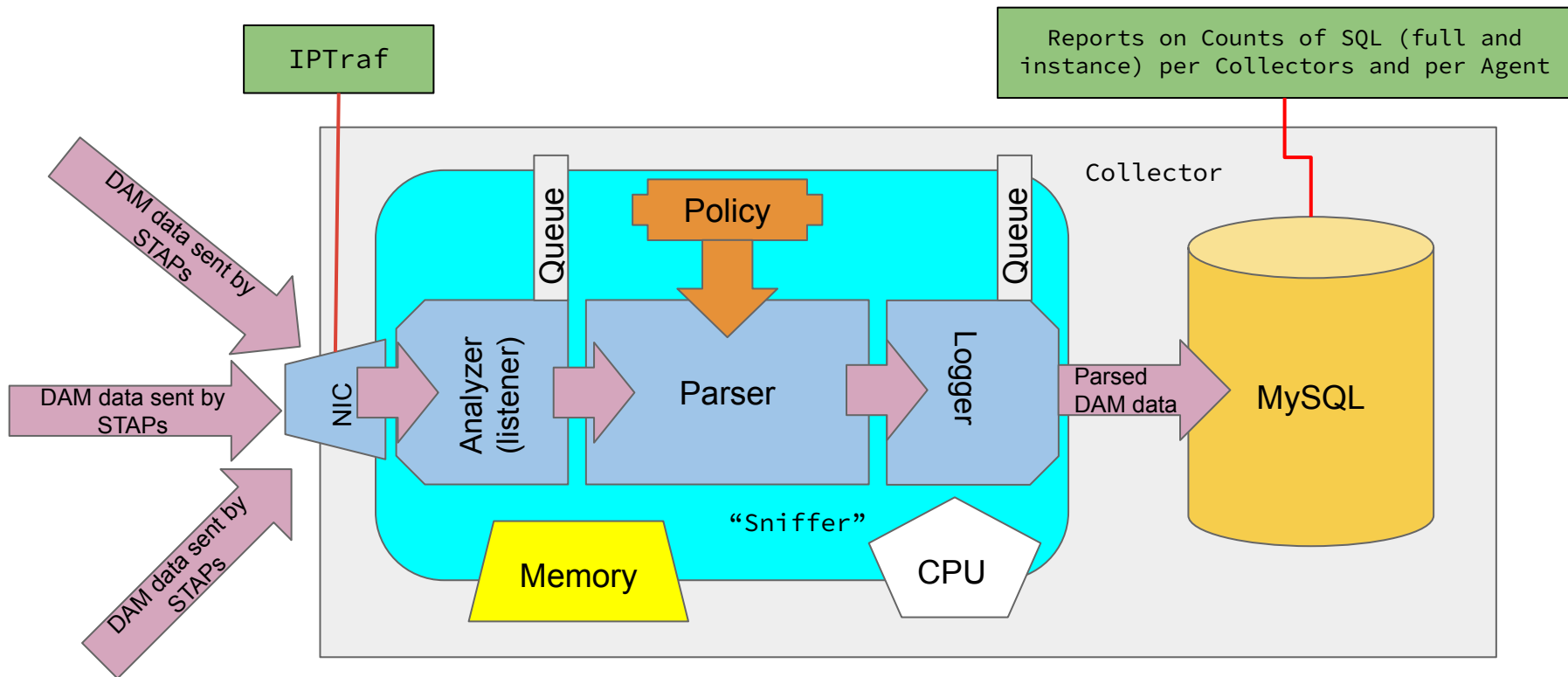
How to assess the contribution of each Agent ?

- **Unfortunately** the BUM gives ONLY global statistics -
- **Only 2 places : NIC and MySQL (see diagram)**
 - At the NIC level : IPTraf from CLI
 - At the MySQL Level : Statistical Reports counting the number of SQLs

What to do ?

- Do nothing is **rarely an option** in this case
- **Re-Assign** some Agents to underloaded collectors to reach a more balanced environment
- **Potentially** Activate the **Enterprise Load Balancing**, but be careful, this too requires close monitoring and speedy reaction in case of trouble

3.2 : ASSESSING CONTRIBUTING AGENTS (NOT IN THE BUM)



OPTION #1 : IPTRAF

In CLI, just type in :

```
>iptraf
```

Excellent Tutorial video on IPTraf

<https://youtu.be/D91hg8sEcOw>

The screenshot displays the IPTraf CLI interface. At the top, it shows a table of TCP connections. Below this, a 'Select sort criterion' dialog box is visible, offering options to sort by packet count (P) or byte count (B). The bottom section of the interface shows a list of network packets, including ARP requests and non-IP traffic. A video player interface is overlaid on the bottom of the screenshot, indicating the video is at 0:49.

TCP Connections (Source Host:Port)	Packets	Bytes	Flags	Iface
172.16.189.3:ssh	> 638	132824	-PA-	eth1
172.16.3.127:55080	> 637	33748	--A-	eth1

Select sort criterion

- P - sort by packet count
- B - sort by byte count
- Any other key - cancel sort

TCP: 1 entries

ARP request for 172.16.3.10 (52 bytes) from 000629716a05 to ffffffff on eth1

ARP request for 172.16.3.10 (52 bytes) from 000629716a05 to ffffffff on eth1

Non-IP (0x9000) (52 bytes) from 001906d455c1 to 001906d455c1 on eth1

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Elapsed time: 0:00

0:49 /

OPTION #2 : SQLS RECORDED INTO MYSQL - BY PRODUCT OF DAM

This is the tricky part :

- Requires having centralized/concentrated the DAM data into an ELK instance
- Or you have the DAM Traffic on the Collector only

Our Solution :

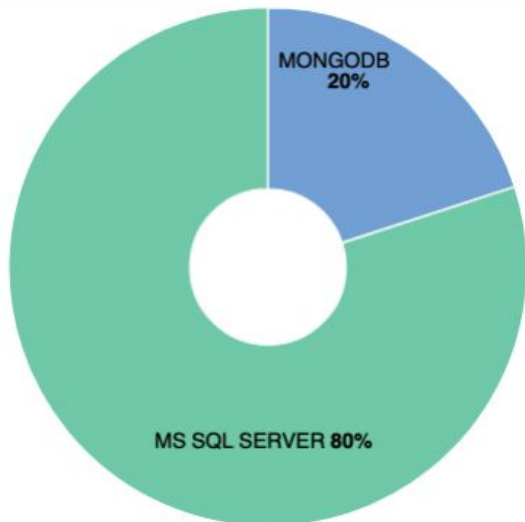
- Export the DAM Traffic and send them to a Central ELK instance thru the **CT22T Enrichment process (next slides)**

If on Collector's MySQL only:

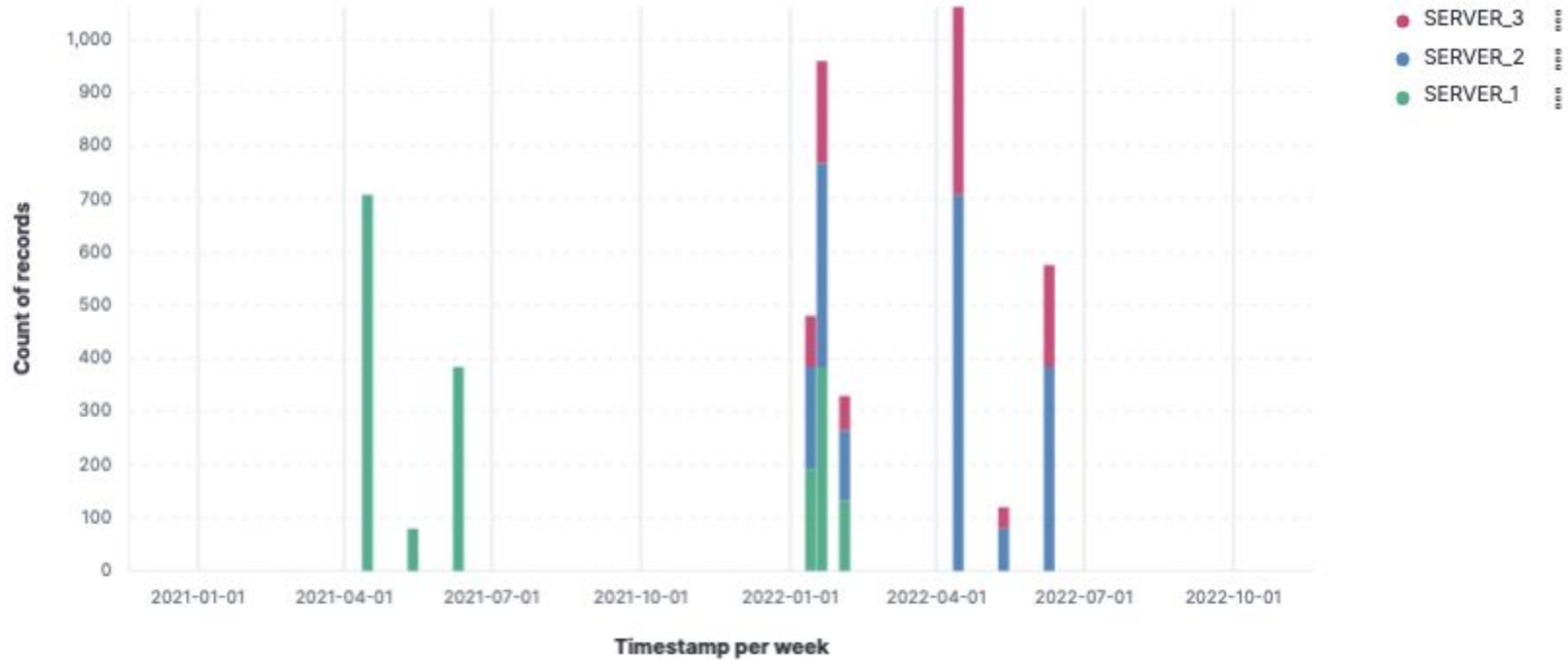
- Write a report mimicking our CT22T solution, but it won't get the same display

KIBANA SCREEN SHOTS BASED ON CT22T PROCESS

OVERVIEW OF THE AMOUNT OF SQLS RECORDED PER COLL & SERVER



OVERVIEW OF THE AMOUNT OF SQLS OVER TIME



OVERVIEW OF THE AMOUNT OF SQLS IN TABULAR FORMAT

Collectors	DB Server	DB Type	Count of SQLs
CT22Coll2	SERVER_1	MS SQL SERVER	384
CT22Coll2	SERVER_2	MONGODB	192
CT22Coll2	SERVER_2	MS SQL SERVER	192
CT22Coll2	SERVER_3	MS SQL SERVER	192
CT22Coll21	SERVER_1	MS SQL SERVER	384
CT22Coll21	SERVER_2	MONGODB	192
CT22Coll21	SERVER_2	MS SQL SERVER	192
CT22Coll21	SERVER_3	MS SQL SERVER	192
CT22Coll3	SERVER_1	MS SQL SERVER	384
CT22Coll3	SERVER_2	MONGODB	192
CT22Coll3	SERVER_3	MS SQL SERVER	192

AMOUNT OF SQLs FOR 1 SPECIFIC COLLECTOR IN TABULAR FORMAT

Collectors	DB Server	DB Type	Count of SQLs
CT22Coll21	SERVER_1	MS SQL SERVER	384
CT22Coll21	SERVER_2	MONGODB	192
CT22Coll21	SERVER_2	MS SQL SERVER	192
CT22Coll21	SERVER_3	MS SQL SERVER	192

For Coll21, the Main contributor is clearly SERVER_1, making this Agent a good Candidate for assignment to another Collector, but any other combination may be relevant.

THE END