GUARDIUM ADMINISTRATION

SECOND INSTALLMENT - PART II.2 -

Maintaining a Balanced Environment

Handling Overloaded Collectors

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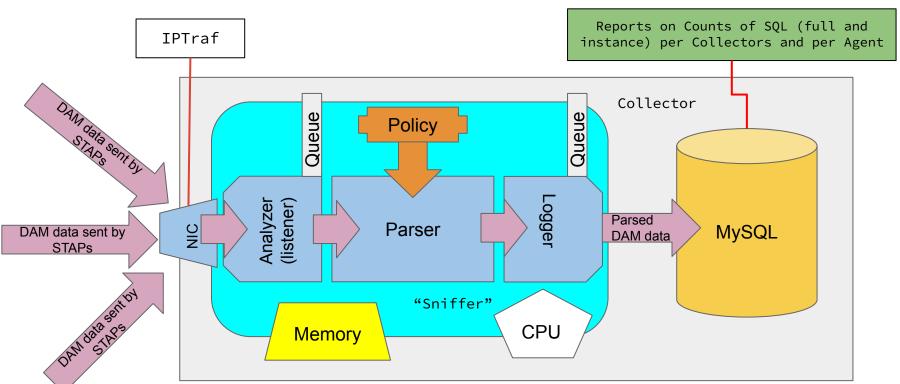
#3.2: HOW TO DETECT CONTRIBUTING SERVERS/AGENT

- # How to assess the contribution of each Agent ?
 - Unfortunately the BUM gives ONLY global statistics -
 - Only 2 places: NIC and MySQL (see diagram)
 - Option #1 : At the NIC level : IPTraf from CLI
 - Option #2: 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)



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DEMO

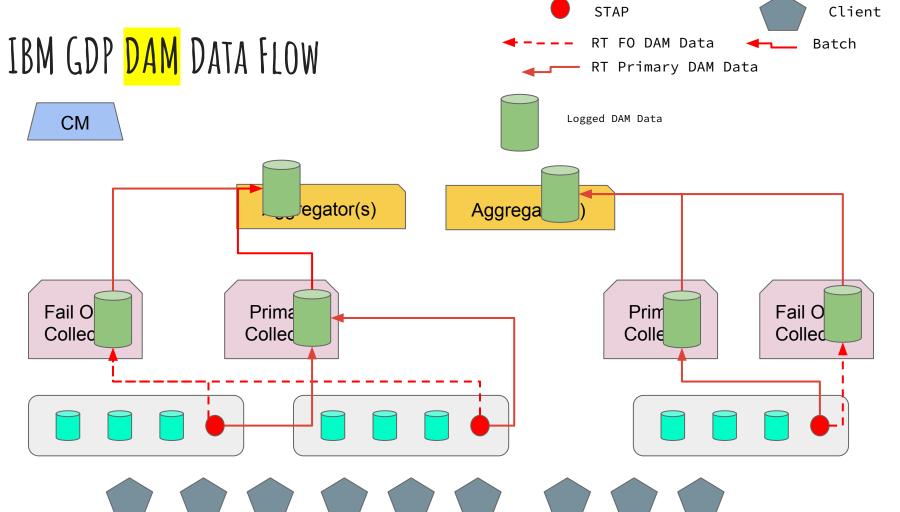
OPTION #2: COUNT OF SQLS INTO MYSQL - BY PRODUCT OF DAM

This is the tricky part:

- Requires centralization of the DAM data into an ELK instance
- Much heavier than centralizing and enriching the BUM

Our Solution:

Export PART of the DAM Traffic and send it to a ELK instance thru the CT22T Enrichment process (see next slides)



FSQL VS. DAM DATA

DAM Data in Guardium

- **Sessions**: (logins + connection time)
- Instance: SQL with a count per hours and per session
- Full SQL : Individual SQLs
- Exceptions : Failed Logins +SQL errors

Full SQL in CT22

- _
- -
- Part of Full SQL: SQLs extracting sensitive data
- _

FSQL in CT22T is only a part of Full SQL but is representative enough to get the proportion of Traffic sent by each Agent

WHY DID WE ORIGINALLY DEVELOP THIS FSQL ENRICH MODULE?

The FSQL Enrich Module was not developed originally to help managing Guardium appliances and their load

The help to managing the load of appliances is only a by-product of this Module

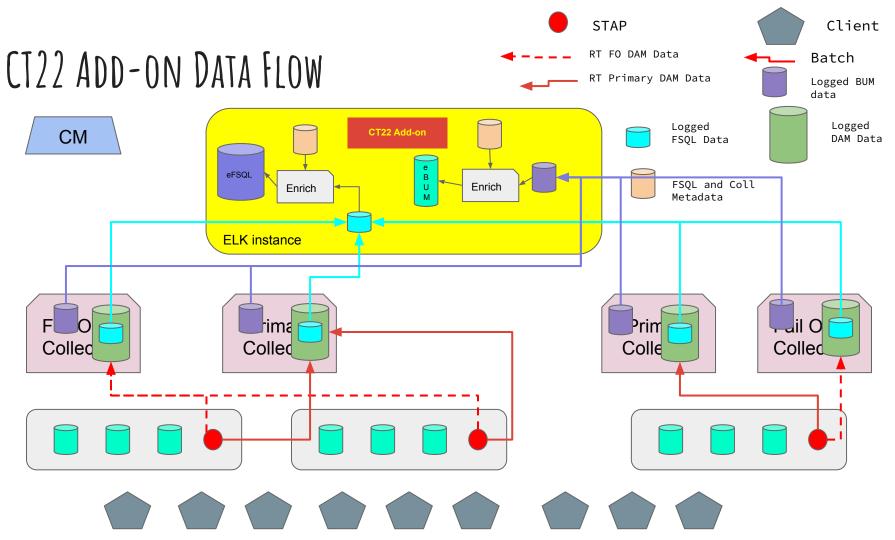
The FSQL Enrich Module purpose is to offer a workbench for security analysis of the DAM traffic

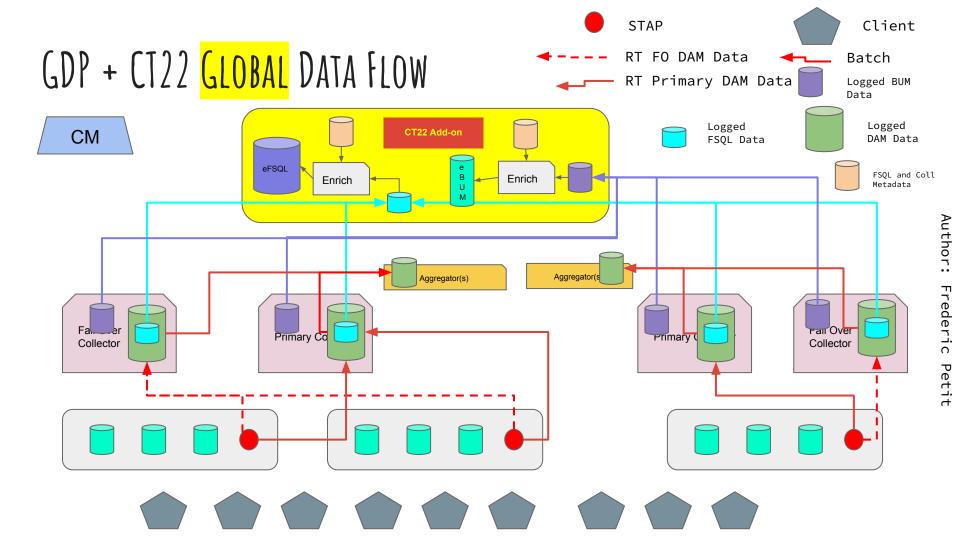
Basically by installing this add-on, not only you can ease the management of your appliances but also start security analysis

It's 1 module for 2 functions

The Security Analysis functionality was presented in several articles on LinkedIn and in videos on the Context22 YouTube channel

We keep developing this security capability in particular around Time Series Analysis and Predictive Analytics





FUNCTIONALITIES OF THE [GDP + CT22 ADD-ON] COMPONENTS

Components

Guardium Agents

Guardium Collectors

Guardium Aggregators

CT22 Add-on Enrich BUM

CT22 Add-on Enrich FSQL

Guardium CM

Functionalities

Capture Traffic

Parse and Store Traffic

Reporting / Auditing

Appliances Management

Appliances & Agents Management

Configuration of Appliances & Agents

Security Analysis of the DB Traffic

ARCHITECTURE OPTIONS

Approach : Keep the Aggregators - Not
moving to SonarG/Insights -

CT22 add-on as add-on to GDP:

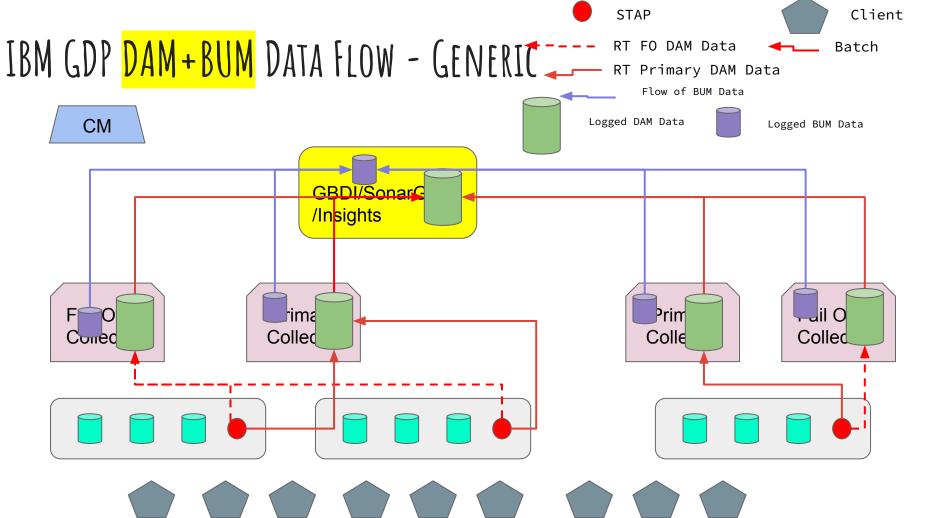
- Get a quick return on Appliances admin due to ease of deployment of the Add-on
- Aggregators stay centered on reporting for auditing
- Platform for Security analysis
 - Enrich FSQL makes FSQL meaningful
 - Threat detection becomes available
- CT22 add-on: gateway to security analysis

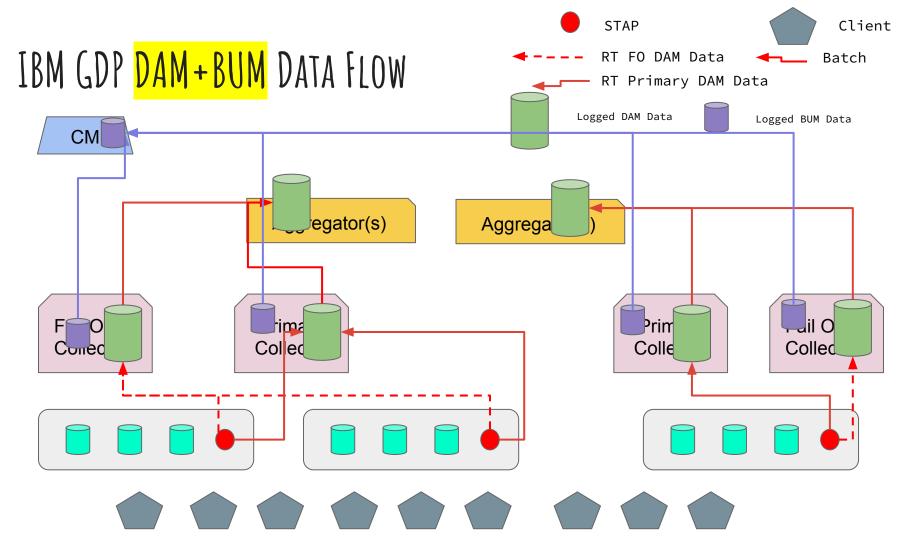
Approach : CT22 Add-on as path to
Sonarg/Insights

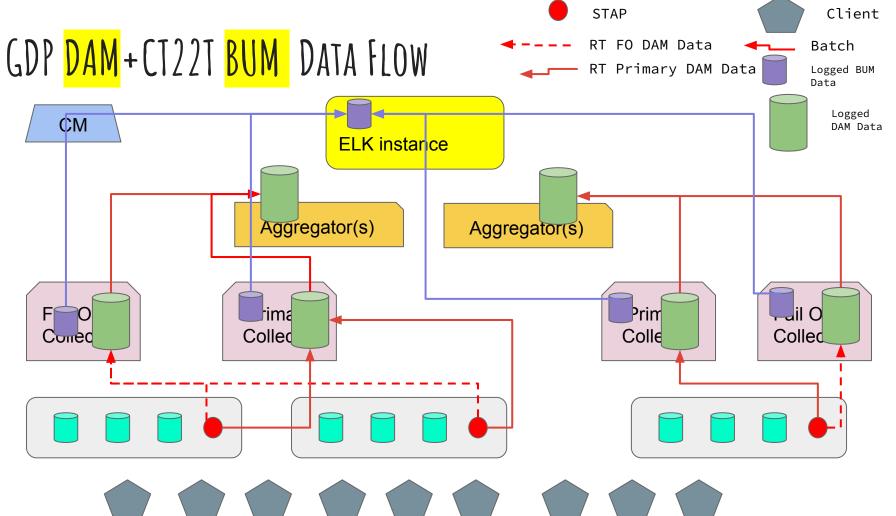
- Prototype the migration
- Testing Enrichment
- Get a quick return on Appliances admin due to ease of deployment of the Add-on
- Enrichment can be ported to Sonar and/or Insights

THE END

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