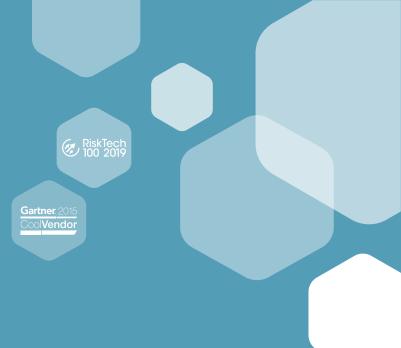




Ljupce Nikolov June 2019





Summary

- What is a dashboard
- Global picture
- Index Patterns
- Saved search
- Dashboard and Visualizations
- Dashboard administration commands



What is a dashboard?

- Combination of charts and table element
- Defined to highlight important piece of information
- Could be both defined for controls output as well as Forensic investigation



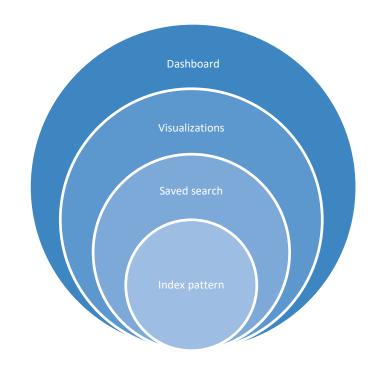


Global picture

Links between elements

- Dashboard contains Visualizations
- Visualizations are built on Saved search

• Saved search uses Index pattern









Index Pattern

- Way to identify underlying indexes to perform searches on
- Work on a set of indexes sharing same type of data
 - Index pattern instead of individual index
 - Sets should share similar data type
- On NG|Screener, 5 default events index patterns are part of the convention

•	ngt-*	matching all "Transaction" data type
•	ngc-*	matching all "Channel" data types
•	ngi-*	matching all "IT Layers" data types
•	ngv-*	matching all "Violations" data types

- ng* matching everything
- Index name format is ng[tciv]-tenantname_host-service-date
 - Specific indexes will be created for each tenant defined for data segregation
- Will be specified when creating saved search

Index Pattern

Log File Model

ebankingTransactions@host1 ebankingTransaction@host2 ebankingTransaction@host3

.

ebankingSessions@host1 ebankingSessions@host2 ebankingSessions@host3

.

openssh@Linuxhost1 openssh@Linuxhost2 openssh@Linuxhost3 BDM (indices)

ngt-tenant_host1-ebankingtransactions-yyyyMMdd ngt-tenant_host2-ebankingtransactions-yyyyMMdd ngt-tenant host3-ebankingtransactions-yyyyMMdd

.

ngc-tenant_host1-ebankingsessions-yyyyMMdd ngc-tenant_host2-ebankingsessions-yyyyMMdd ngc-tenant host3-ebankingsessions-yyyyMMdd

.

ngi-tenant_linuxhost1-openssh-yyyyMMdd ngi-tenant_linuxhost2-openssh-yyyyMMdd ngi-tenant linuxhost3-openssh-yyyyMMdd **BDM Index patterns**













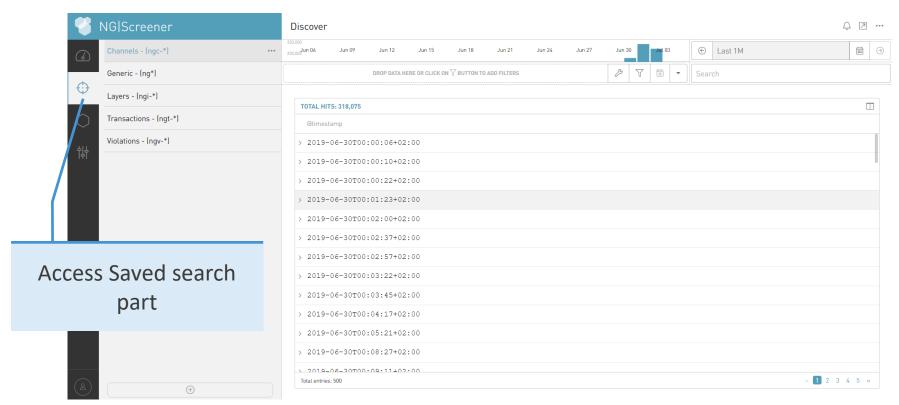




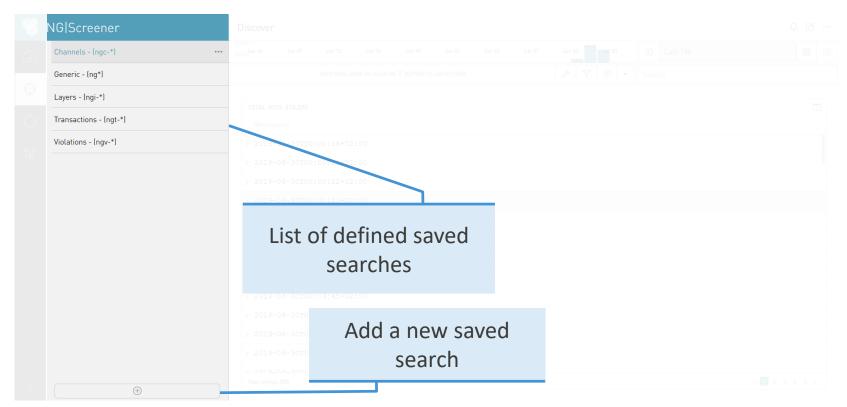
Saved Search

- Saved searches have 2 main purposes
 - Basis for data visualization
 - Used as a table to show events
 - Fields Mapping to change header column name
- Most commonly one saved search will be used across one dashboard
 - Consistently show the data through the whole dashboard

Saved Search - View



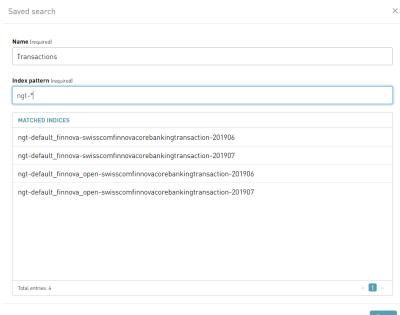
Saved Search - View





Saved Search – Create new

- Create Saved search with
 - Name for the saved search
 - Index pattern
- Convention specifies these index patterns
 - ngt-* Financial Transactions
 - ngc-* Channels
 - ngi-* IT Layers
 - ngv-* Violations
 - ng* Generic
- Shows indices match specified index pattern
- Once created filter can be added (as when using dashboard view)

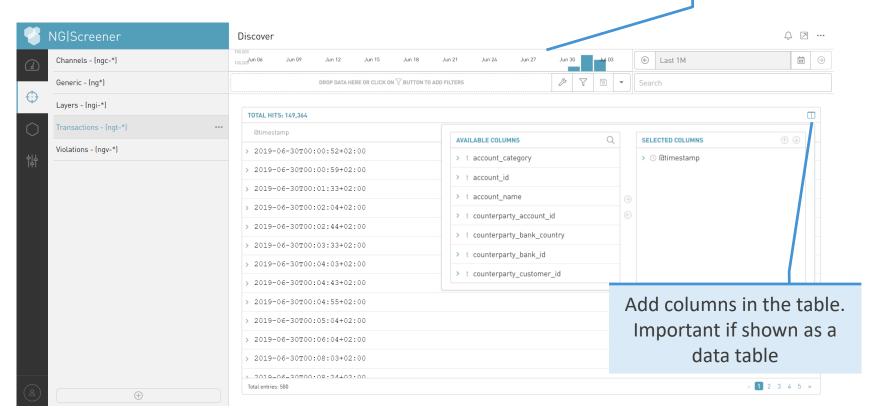






Saved Search – Create new

Filtering same as in dashboard view (cf. NG|Screener UI Usage)





Saved search – Create new

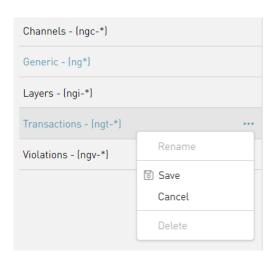
Field Mappings will only be shown in the widget in a dashboard

TOTAL HITS: 149,364								
(dtimestamp	account_category	account_name	customer_name	transaction_converted	transaction_currency	transaction_direction		
> 2019-06-30T00:0 0:52+02:00	NG-SCREENER Priv	P 9296.75.49	099242	1536	CHF	out		
> 2019-06-30T00:0 0:59+02:00	NG-SCREENER c/c Companies	6022.53.56	8187882	352.85	EUR	out		
> 2019-06-30T00:0 1:33+02:00	Vostro account	6489.40.96	6928922	905263.44	USD	out		
> 2019-06-30T00:0 2:04+02:00	NG-SCREENER Priv	K 4277.90.13	2705319	45.5	CHF	out		
> 2019-06-30T00:0 2:44+02:00	NG-SCREENER Busi ness Partner	3160.66.11	0529038	62	CHF	out		
> 2019-06-30T00:0 3:33+02:00	Current account	4679.25.19	0694447	4796.2	CHF	out		
> 2019-06-30T00:0 4:03+02:00	Vostro account	6489.40.96	6928922	22393.99	USD	out		
> 2019-06-30T00:0 4:43+02:00	Vostro account	6489.40.96	6928922	65766.59	USD	out		
Total entries: 500						« 1 2 3 4 5 »		



Saved Search – Create new

- When finished saved search can be saved (cf. printscreen)
- Saved search is ready to be used:
 - As basis for visualizations in dashboards
 - Directly as data table





Dashboard and Visualizations





Dashboard and Visualization

Dashboard

- Collection of visualization put together
- Will be used for
 - Forensic Views
 - Violation Dashboard
 - Control output dashboards

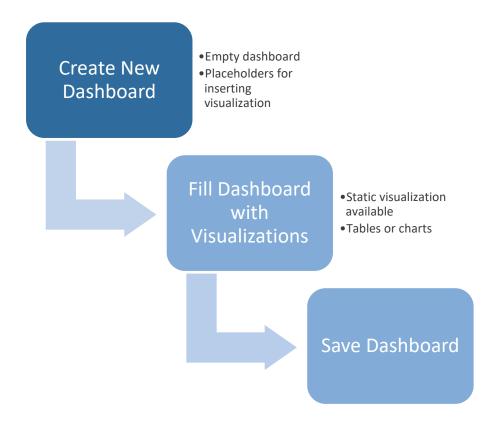
Visualization

- Biggest part when creating Dashboards
- Different type of visualization available
 - Vertical bar chart
 - Pie chart
 - Heatmap
 - •



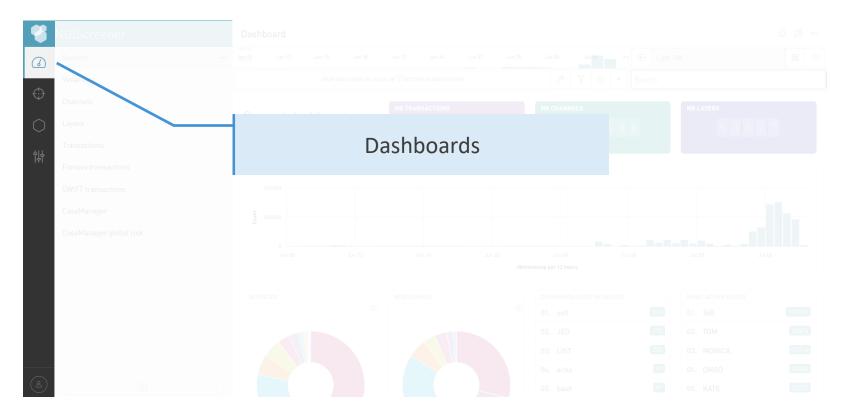


Dashboard and visualizations





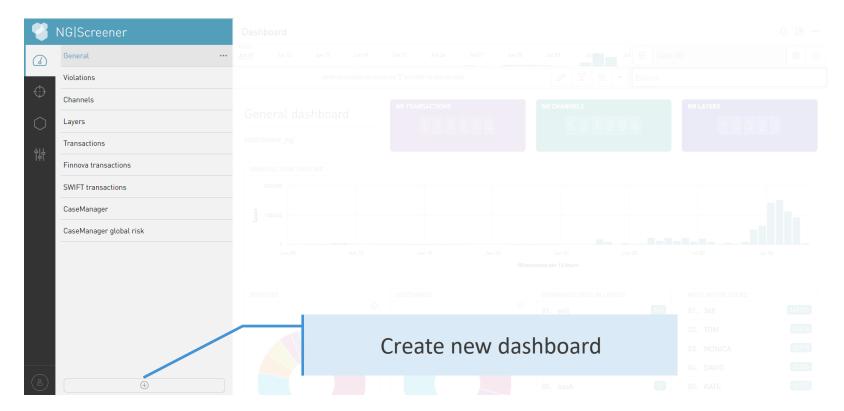
Create a new Dashboard





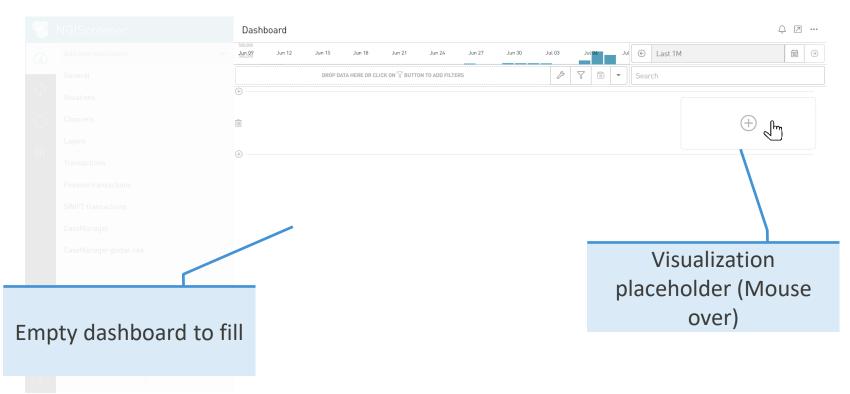


Create a new Dashboard





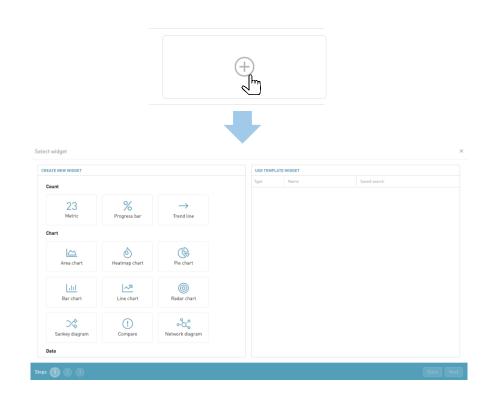
Create a new Dashboard





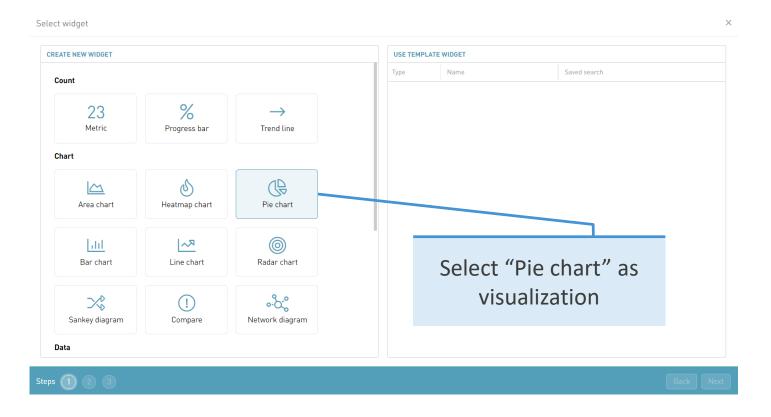
Create Visualizations

- Click on placeholder to add a visualization
- Wizard will appear to define the content of the visualization
 - Type
 - Saved Search
 - Configuration
- Configuration depend on type of visualization
- Size of visualization could be changed afterwards

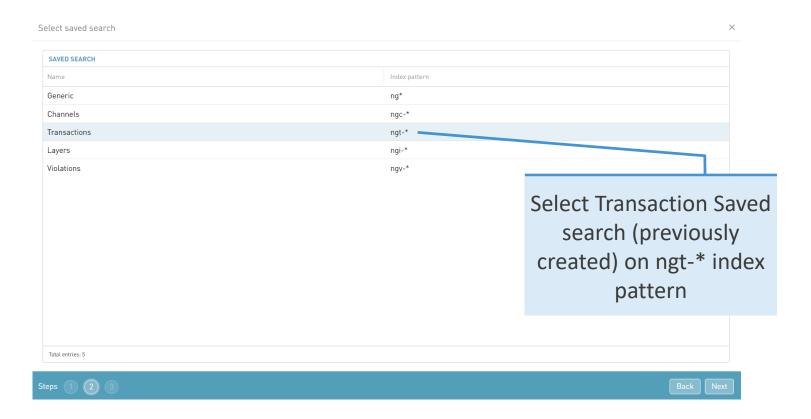






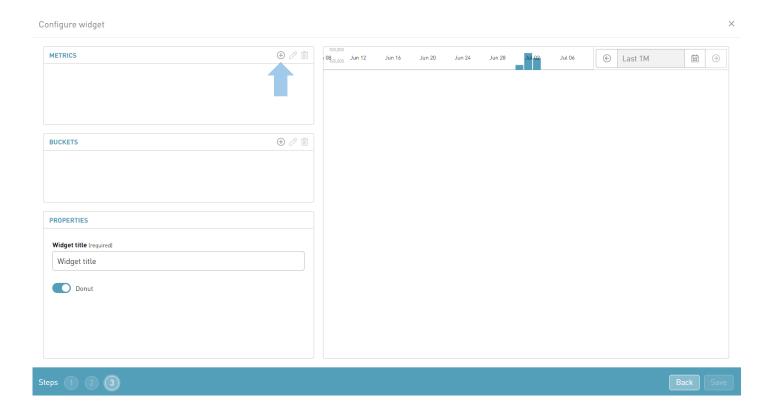






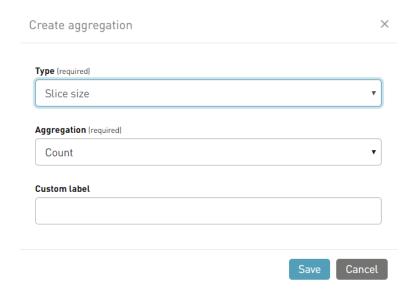




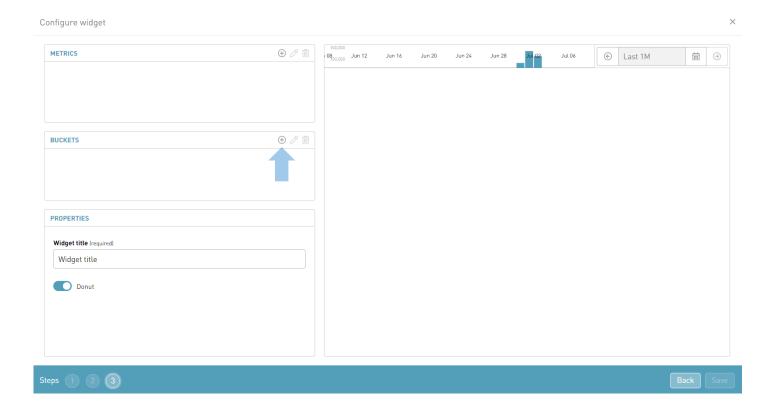




- Metrics define what will be used for sizing the chart elements
 - For a pie the size of the slices
- Options
 - Count
 - Unique Count
 - Sum
 - •
- More option depending on what has been selected

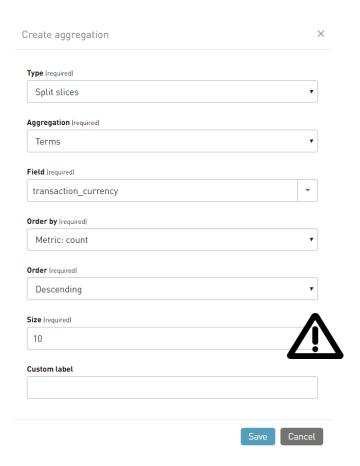




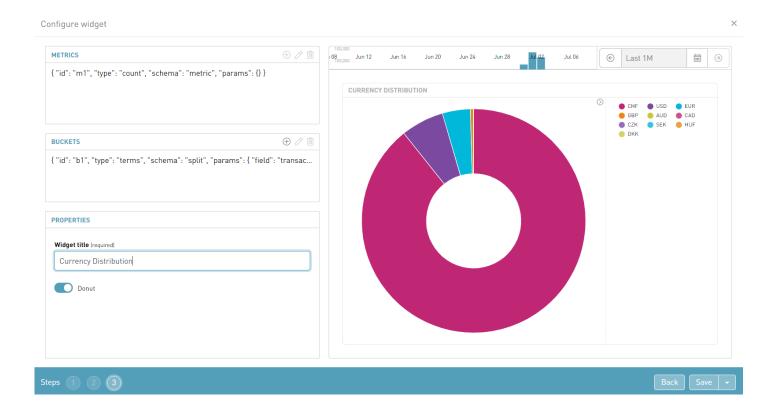


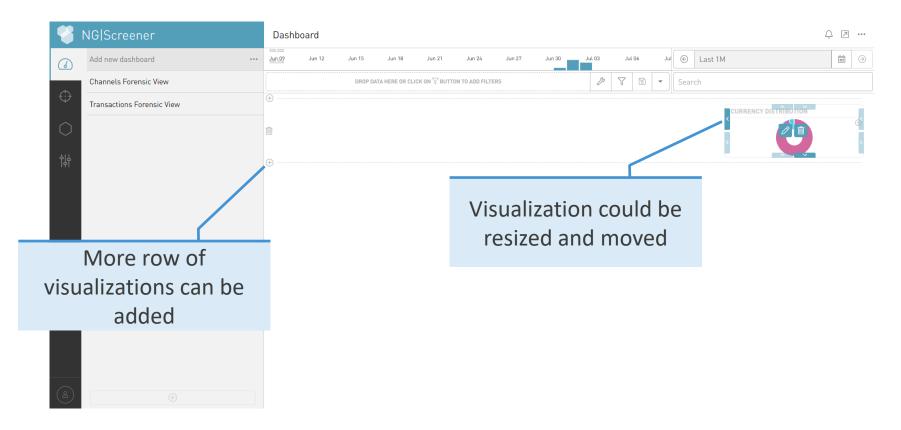


- Buckets defines how to split the chart
 - For a pie it means what will be used to split it
- In this example, the different terms in the field transaction_currency will be used to specify slices (most common case)
 - CHF
 - USD
 - EUR
 - ...

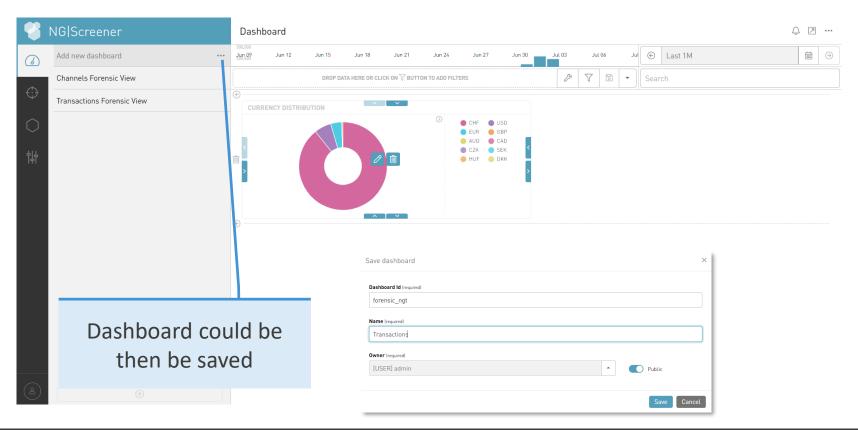




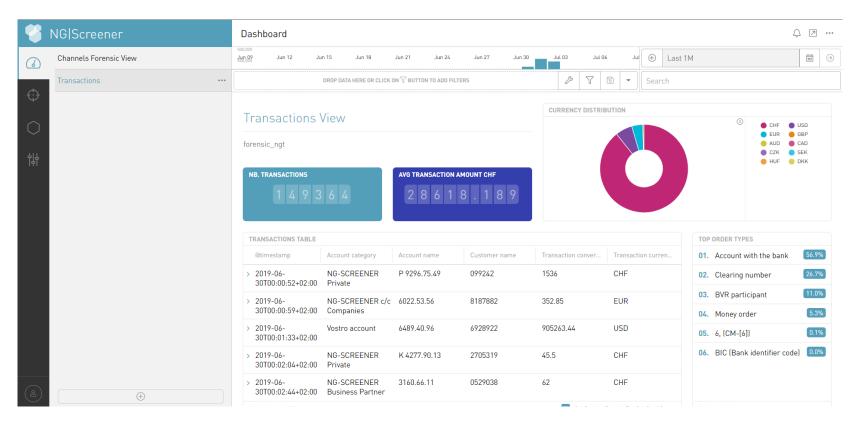




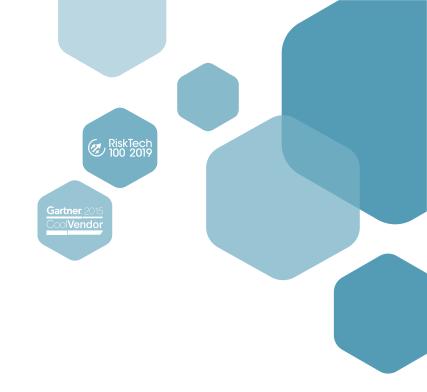














- Using ngadmin command line tool
 - List dashboards
 - ngadmin dashboard_listDashboards
 - Export Dashboards
 - ngadmin dashboard_exportDashboards
 - Import Dashboards
 - ngadmin dashboard_importDashboards



[root@NG-SCREENER dashboards]# ngadmin dashboard_listDashboards

```
DASHBOARD_ID TYPE NAME

-----
forensic_ngc FORENSIC Channels Forensic View
forensic_ngt FORENSIC Transactions

(2 dashboards found)
```





- Export dashboards
 - ngadmin dashboard_exportDashboards -d out_dir [-t type]
 [filter criteria]
 - Parameters
 - -d: Directory where to write output (Mandatory, should be writeable by ngscreener user)
 - -t : Type of dashboards to be exported (forensic, control, all (DEFAULT))
 - Filter criteria: Filter which dashboards to be exported (ex. forensic_*)





- Import dashboards
 - ngadmin dashboard_importDashboards -d in_dir [-f input XML file]
 - Parameters
 - -d: Directory where to read dashboards (Mandatory, should be readable by ng-screener user)
 - -f: Dashboard XML file to be imported (if not specified, all files in directory)



Thank you!

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Ljupce Nikolov



+41 24 425 97 60



nikolov@netguardians.ch

Cont

Contact us

NetGuardians Headquarters

Y-Parc, Av. des Sciences 13 1400 Yverdon-les-Bains Switzerland

T+41 24 425 97 60

NetGuardians Africa

Vienna Court State House Rd Nairobi, Kenya

+254 205 138539



NetGuardians Germany

Rhein-Main Gebiet Germany

T+49 172 3799003

NetGuardians Eastern Europe

Koszykowa 61, 00-667 Warsaw, Poland

T+65 6224 0987