



**VARiS™**

**Version 2.0**

## **Getting Started / User Guide**

Use this getting started guide to gain a basic understanding about the Varis solution and how to maximize it to produce the best results.

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## Introduction to Varis

Varis provides you with an end-to-end solution for performing web intelligence investigations. The solution enables you to plan, collect, analyze and disseminate findings from social media and open web sources.

### Overview

Varis collects data from the web via social media networks and search engines sources, then performs a user assisted processing of the data. The data is then displayed according to data type and the relationship between data items. The Varis solution provides various views and analytic tools that enable you to filter, arrange and visualize the data through a process of deductive reasoning. Once you have analyzed the data you can then create and export a PDF insight report.



## This Getting Started Guide

To make the learning process as simple as possible this Getting Started Guide is designed to provide you with an understanding of the basic functionality of the Varis system in the context of creating a case, then an investigation and performing the basic operations provided in the system for performing an investigation and recording your findings in an Insight Report.

## Basic System Requirements

ReconGate recommends the following basic configuration setup for using Varis.

- Browser:** Chrome/Opera
- Default Browser Zoom:** 100%
- Default Language:** Chinese Simplified/English
- Screen:** HD 1080 24 inch



## Welcome to Varis

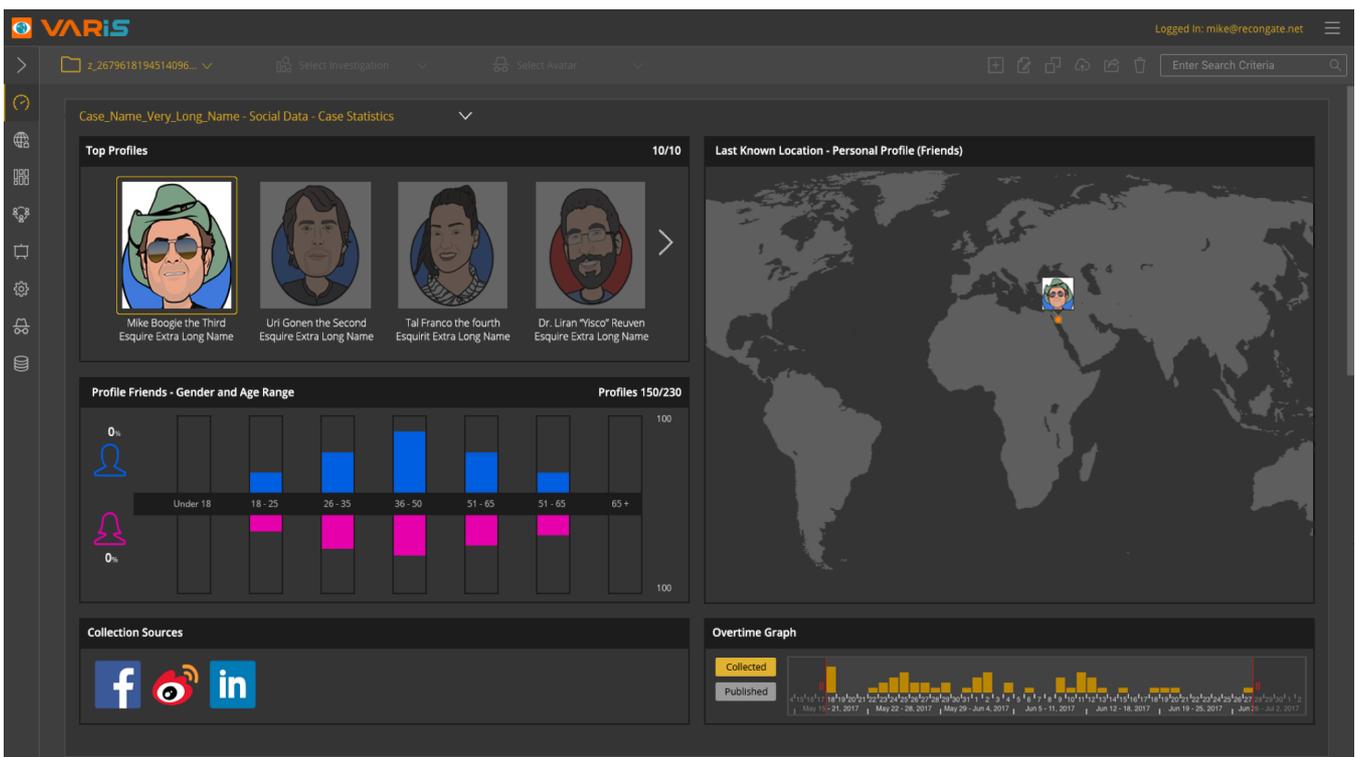
Scan social networks, search engines, news sites, forums and blogs and collect and harvest data from these sources. Varis then provides you with a set of powerful viewing mechanisms designed to provide you with both a visual understanding of the collected content and then further enrich the data. Once you have collected data from the many source options you can then create insight items and add them to your case report.

## Varis Dashboard

The Varis dashboard provides a comprehensive view of all the investigations per case as well as a set of KPI's that reflect the overall case statistics.

### Case Level Statistics

The top of the dashboard shows the overall case level statistics. The case level statistics is the total sum average of all the collected data for the entire case. Each KPI (key performance indicator) reflects the total combined average of all the investigation statistic in a unified and graphic overview.



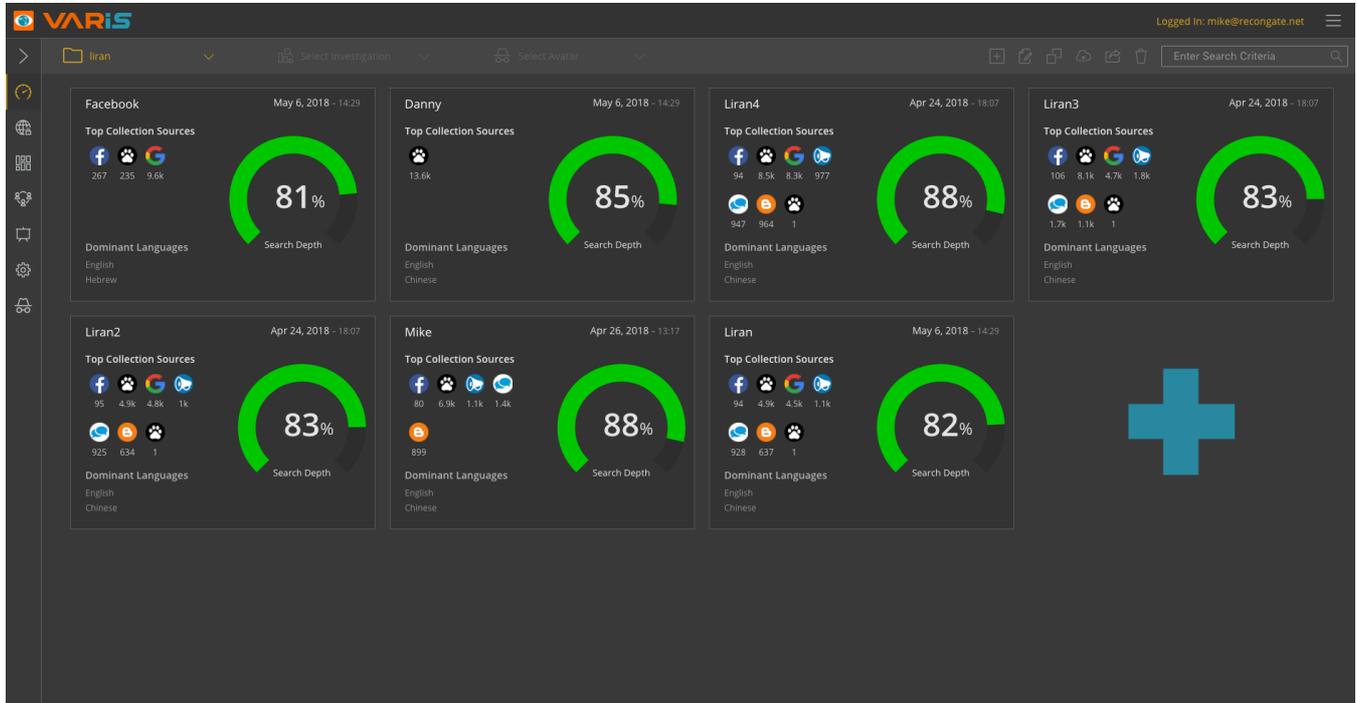
### KPI Widget – Pin to Insight Report

When creating an insight report, you can add the KPI widgets to your report in a click. Simply hover over the desired KPI widget and click, then add a title and description to the KPI widget snippet and click the save button to add it to your Insight Report view,



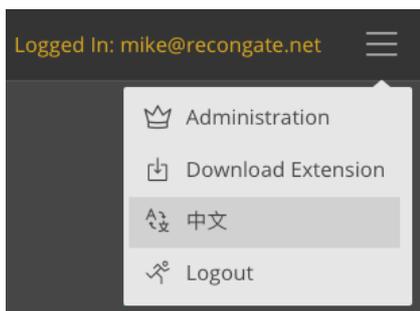
## Investigation Collection Statistics Tiles

Each investigation tile provides the user with a graphic representation of the latest collection statistics including sources, the number of collected items per source type, the dominant languages per investigation and the success rate of return data according to the scoped search target content.



## Chinese Language Support

In order to get the best user experience out of Varis we provide you with a **English/Chinese** switchable user interface. You can access this by selecting the language option from the hamburger drop menu located in the top right corner of the Varis tool bar.



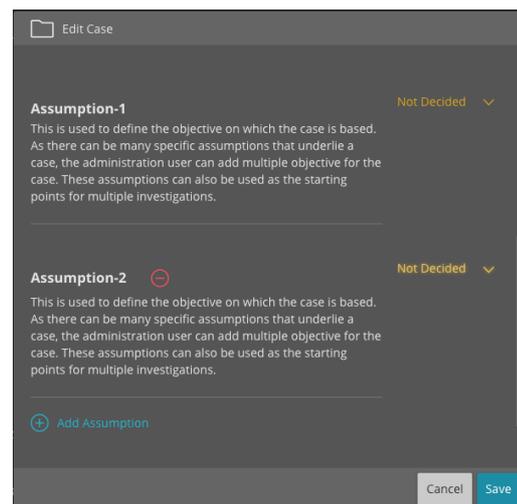
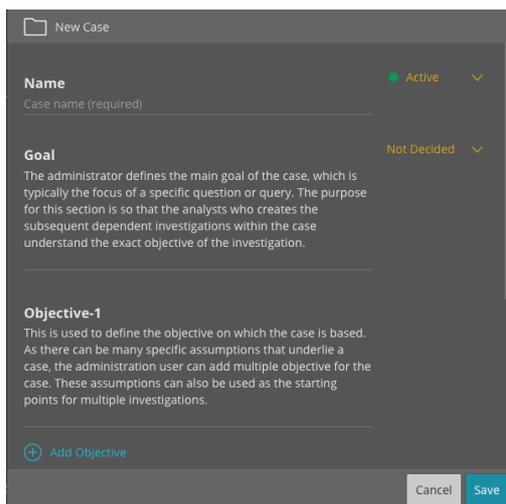


## Setting Up Your First Case (Project)

Varis enables the administrator to create a new Case folder and to then define the project hypothesis and the basic project assumptions. Once the case is created the administrator then assigns analysts to the case (this is an optional stage as the analysts can be added later).

### Creating a New Case Project

1. Login to Varis as the Administrator (relevant permissions required).
2. Go to the admin section of Varis by clicking on the **Hamburger icon** at the top right hand corner of the application.
3. Select the **Administration** option from the drop menu.
4. Click on the **Cases** tab in the **Management** navigation view options on the left navigation section of Varis.
5. Click on the **New Case**  button located at the top right hand corner of the window.
6. Now enter the **Case Goal** definition and add at least one **Objective**
7. Add at least one Assumption to create the case.



### Goal Input Field

The administrator defines the main goal of the case, which is typically the focus of a specific question or query. The purpose for this section is so that the analysts who creates the subsequent dependent investigations within the case understand the exact goal of the investigation. This will assist the actual investigation work while clearly understanding the goal of the Case.

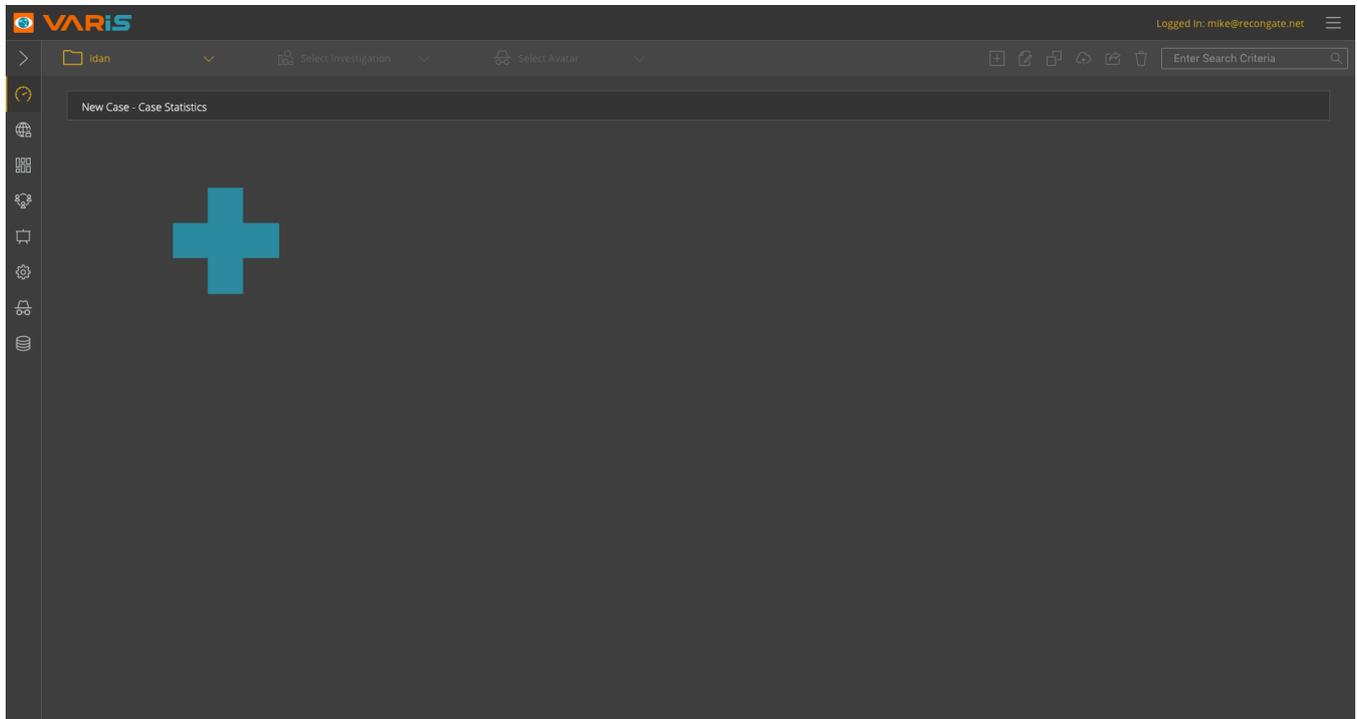
### Objective and Assumption Input Field

This is used to define the objective and assumptions on which the case is based. As there can be many specific objectives and assumptions that underlie a case, the administration user can add multiple objective/assumptions for the case. These objective/assumptions can also be used as the starting points for multiple investigations.



## Starting Your First Investigation from the Dashboard

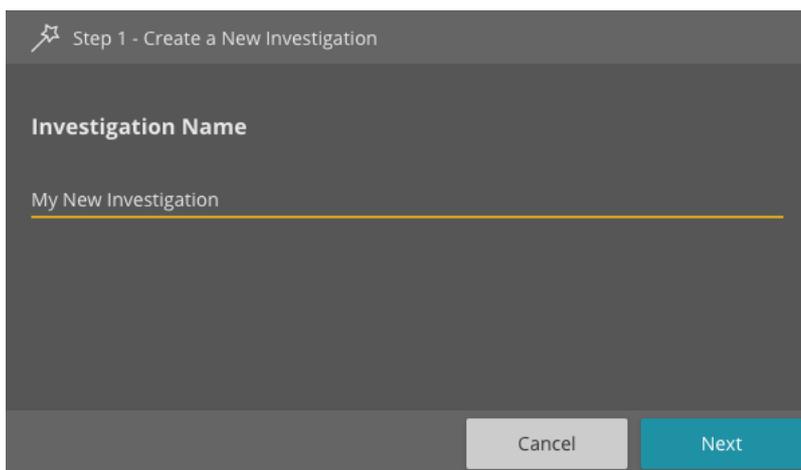
Once you have returned to the **Varis Dashboard** click on the **+ plus** button and complete the wizard to create a new investigation instance.



### The Integration Configuration Wizard

Complete the **Create a New Investigation** wizard to configure the new investigation.

#### Step 1 – Enter investigation name – **My New Investigation**





**Step 2** – Create a Deep Cover Avatar or Click Next to Skip the Stage – **Enter your social network email username and password, set the language, browser and select the relevant proxy address.**

The screenshot shows a web interface for 'Step 2 - Create a Deep Cover Avatar'. It is divided into three main sections:

- Social Network:** A dropdown menu is set to 'Facebook'. Below it, under 'Security', there are three options: 'Language' (1 items selected), 'Browser' (Opera), and 'Proxy' (TH - Bangkok : 250...).
- Social Networks Credentials:** This section contains fields for 'Facebook' (with a blue 'f' icon), 'my-email@address.com', and 'My Password'. Below these is a circular profile picture placeholder with a hat and glasses icon, and several fields for personal details: 'Current Address', 'Date of Birth', 'Marital Status', 'Gender', 'Hometown', 'Education', and 'Life Events', all currently empty.
- Social Networks Details:** This section lists various profile metrics, each followed by a horizontal line indicating a missing value: 'Facebook ID', 'Followers', 'Friends', 'Last Activity', and 'About You'.

At the bottom right, there are three buttons: 'Cancel', 'Back', and 'Next'.

**Step 3** – Create a User Keyword (This is a basic search term) – **Enter the User Keywords that you want to use to focus your search.**

The screenshot shows a web interface for 'Step 3 - Create a User Keyword'. It features a dropdown menu for 'Select User Keyword Category' with 'Mentioned' selected. Below this are two text input fields: 'New User Keyword' and 'Add synonym, click tab'. At the bottom, there are three buttons: 'Cancel', 'Back', and 'Next'.



**Step 4** – Create a Keyword Blacklist (Words that you aren't interested in) – **Enter the words that you would like to exclude from your search.**

The screenshot shows a mobile application interface for creating a keyword blacklist. At the top, it says "Step 4 - Create a Keyword Blacklist". Below that, there is a section "Select User Keyword Category" with a dropdown menu currently set to "Mentioned". Underneath is a text input field with the placeholder text "Words I don't want to see". At the bottom of the screen, there are three buttons: "Cancel", "Back", and "Next".

**Step 5** - Confirm your investigation configuration and click the Apply button – **Review your new investigation configuration and if all is correct, then click the Apply button.**

The screenshot shows a mobile application interface for a summary screen. At the top, it says "Step 5 - Summary". Below that, there is a message: "Please review and confirm the configuration of your new investigation". Underneath, there is a list of configuration details: "Investigation Name: My New Investigation", "Avatar Name: my-email@address.com", "Keyword: New User Keyword", and "Keyword Blacklist: Words I don't want to see". At the bottom of the screen, there are three buttons: "Cancel", "Back", and "Apply".



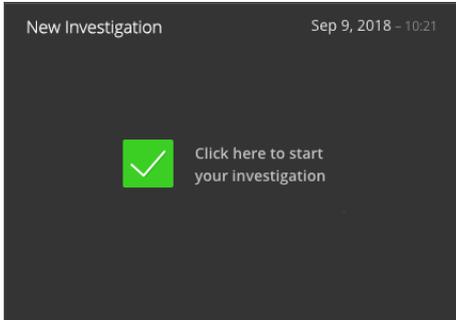
**Investigation (READ ONLY) Mode** – Varis enables you to view other people's investigations when they are working within their investigation.

This is referred to as **Read Only** mode. When in read only you will be able to view the investigation but will have limited functionality and only the relevant buttons will be actively available.



## Performing Your First Scope Collection Task

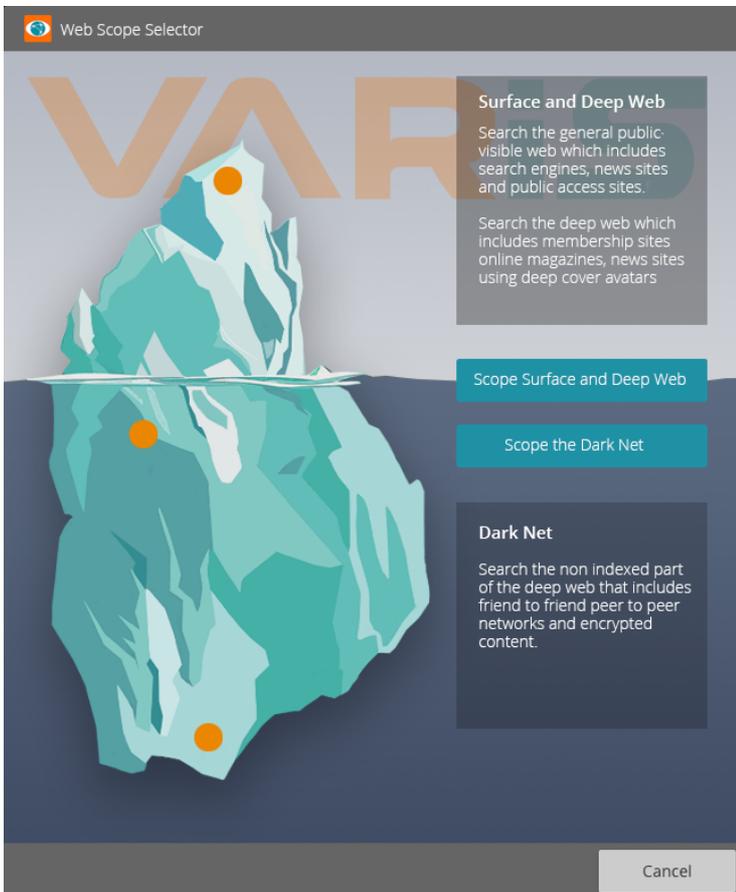
To perform a collection task, you must decide what you are interested in looking for and where you are most likely to find it. Click on the newly created investigation tile and add your User Keyword to the Search Term and choose your target source.



Clicking on the investigation tile opens the **Web Scope Selector Dialog** where you can choose the target source for your first data collection task.

### The Web Scope Selector

The **Web Scope Selector** dialog exposes the two different options that are available in Varis for collecting web data from the internet, they are as follows. Click on the top button to perform a **Surface and or Deep Web** collection task or click on the second button below to perform a **Dark Net** search.





## Search the Surface and Deep Web

Search the general public visible web which includes search engines, news sites and public access sites. Search the deep web which includes membership sites online magazines, news sites using deep cover avatars.

Scope Collection

Select the search category and then enter your search term and ad keywords to focus your search. Varis will search the dark net and provide with the most relevant results

**Search Criteria** Add Keyword ▾

Enter your Search Terms

---

**Sources**

<input type="checkbox"/> General Sources	Type
<input type="checkbox"/> Weibo	Profiles ▾
<input type="checkbox"/> Facebook	Profiles ▾
<input type="checkbox"/> LinkedIn	Profiles ▾
<input type="checkbox"/> Baidu	Search ▾
<input type="checkbox"/> Google	Search ▾
<input type="checkbox"/> Sogou	Search ▾
<input type="checkbox"/> WeChat News	Search
<input type="checkbox"/> Zhihu	Search



## Search the Dark Net

Search the non-indexed part of the deep web that includes friend to friend peer to peer networks and encrypted content.

Scope Collection - Dark Net

Enter your search term and add keywords to focus your search, then select the target sources. Try to limit the amount of selected sources, as selecting too many will effect performance

**Search Criteria** Add Keyword

Select Search Criteria

**Sources**

<input type="checkbox"/>	<b>Dark Net</b>	<b>Type</b>
<input type="checkbox"/>	Dark Net	Search
<input type="checkbox"/>	Dark Forums	Search
<input type="checkbox"/>	Marketplaces, CC Markets	Search
<input type="checkbox"/>	<b>Restricted Net</b>	<b>Type</b>
<input type="checkbox"/>	Telegram	Search
<input type="checkbox"/>	QQ Groups	Search
<input type="checkbox"/>	MIRC	Search
<input type="checkbox"/>	Paste Sites	Search
<input type="checkbox"/>	Reddit And Github	Search



## Duplicating an Investigation

You can duplicate an investigation by selecting the checkbox of an investigation and then click on the **Duplicated Investigation** button. Then you must wait until the data is fully copied to the new investigation before opening it.

 Duplicate Investigation

 The selected investigation will be duplicated with the currently existing data. Any outstanding data that has not yet been collected will not be included in the duplication process.

**Investigation Name**

Enter Investigation Name



**Duplicating Investigations** – Once you have started to perform data collections your investigation often grows, becoming large, complicated becoming hard to handle.

We recommend when dealing with huge investigations (more than 8000 nodes) that you duplicate the investigation and then delete the irrelevant content before performing enrich functions on social object nodes.

### Important Note

It is possible to duplicate **locked Investigations**.



## Creating Your First Secure Browser Agent

A Secure browser agent is a virtual web entity created by a Varis analyst. The secure browser agent operates within the internet landscape for collecting data from search engines and websites that do not require login.



**Secure Browser Agent** - An Agent represents a simple internet **identity** used by a Varis analyst to gather information from across the surface web, including search engines and open internet website where open information exists, such as news sites, company sites and sales portals.

To create a new **Secure Browser Agent**, perform the following steps:

1. Go to the **My Avatars** view
2. Click on the plus button that opens the **Deep Cover Avatar** dialog
3. SET THE RED SECTION ONLY
4. Set the security variables including the following:
  - a. Default browser language
  - b. Browser type
  - c. Proxy settings.
5. Click on the **Save** button to create a **Secure Browser Agent**.
6. To change the configuration of the Secure Browser Agent, delete it and start again

Deep Cover Avatar

Social Network: Facebook

Social Networks Credentials

- facebook
- mabudo@outlook.com

Boogle

Personal Details

- Avatar
- Current Address
- Date Of Birth
- Marital Status
- Gender
- Hometown
- Education
- Life Events

Social Network Details

- Facebook ID
- Followers
- Friends
- Last Activity
- About You

**Security**

- Languages: 1 items selected
- Browser: Chrome
- Proxy: New York - 25007

Cancel Save



## Creating or Upgrading Your First Deep Cover Avatar

An Avatar is a virtual web entity created by a Varis analyst. The **Avatar** operates in the online landscape and can interact with other people's online entities just as a real user would via social networks on the internet.



**Deep Cover Avatar** - An Avatar represents a **pseudo social network identity** used by a Varis analyst to gather information from across the deep web, including social networks, search engines and closed internet groups where privileged information exists.



## Create a New Deep Cover Avatar Instance Per Social Network

To create a new avatar per social network, perform the following steps:

1. Go to the **My Avatars** view
2. Select the **Deep Cover Avatar** option from the drop menu.
3. Click on the **New Avatar** button and name the avatar.
4. SET THE RED SECTIONS
5. Select the target social network
6. Set the security variables including the following:
  - a. Default browser language
  - b. Browser type
  - c. Proxy settings.
7. Enter the **Social Network** user credentials for a single social network.
8. Click on the **Save** or **Update** button.
9. Wait until Varis retrieves the social network personal profile details and populates the input fields in the **Deep Cover Avatar** dialog.

Deep Cover Avatar

Social Network: Facebook

**Social Networks Credentials**

- facebook
- mabudo@outlook.com
- Boogle

**Personal Details**

- Profile Picture
- Current Address
- Date Of Birth
- Marital Status
- Gender
- Hometown
- Education
- Life Events

**Social Network Details**

- Facebook ID
- Followers
- Friends
- Last Activity
- About You

**Security**

- Languages: 1 items selected
- Browser: Chrome
- Proxy: New York - 25007

Cancel Save



### Important Note

To ensure that you use a **real and authenticated** social network personal profile, Varis only allows you to activate a verified personal profile with valid credentials during the creation of a **Deep Cover Avatar profile per Social Network**.

### Patience Required

It takes time for Varis to collect the relevant data and then create the Deep Cover Avatar



## Considerations When Creating your Avatar Profile

The avatar within Varis represents how the user engages social networks on the web and collects data. Therefore, it is imperative that the avatar that you create is designed for a specific task and is focused on the target of your investigation. The avatar must be believable, therefore there are some guidelines that you must adhere to when you create and operate it.

### Building Your Online Profile Bio

When you create your avatars biography you must consider the following personality parameters: gender, age occupation, country, language and more. The following parameters such as should all be consistent with the target audience.

### Setting Up Security Settings

To correctly configure the security settings of your avatar, pay attention to the following points of concern.

The security settings should reflect the target audiences' internet browser and machine configurations such as default keyboard language, **standard browser** used by the target audience, **language** settings as well as the **proxy** settings.

### Selecting the Correct Proxy Address

When considering your proxy address choice make sure to always use the same proxy address for the same deep cover avatar and never change it throughout the course of its life. Also, when selecting a proxy address for use outside of China, make sure to **use non-Chinese proxy address** to access **Non-Chinese Social Networks**.



## The Social Network Credentials - IMPORTANT

To bring your avatar to life you must link the Varis **Deep Cover Avatar** to the relevant **social network profiles**. This is achieved by entering the **username** and **password** credentials of your **Previously Created** social network profiles. Varis then collects the Profile details per social network and populates the **Deep Cover Avatar dialog**.

The screenshot shows the 'Deep Cover Avatar' dialog box. It is divided into three main sections:

- Social Network:** A dropdown menu is set to 'Facebook'. Below it, there are settings for 'Security', 'Languages' (1 item selected), 'Browser' (Chrome), and 'Proxy' (New York - 25007).
- Social Networks Credentials:** This section contains input fields for 'facebook' (with a Facebook icon), 'mabudo@outlook.com', and 'Boogle'. Below these is a 'Personal Details' section with a profile picture placeholder and fields for 'Current Address', 'Date Of Birth', 'Marital Status', 'Gender', 'Hometown', 'Education', and 'Life Events'.
- Social Network Details:** This section lists 'Facebook ID', 'Followers', 'Friends', 'Last Activity', and 'About You', each followed by a horizontal line indicating a value.

At the bottom right of the dialog, there are 'Cancel' and 'Save' buttons.



### Avatar Profile Dialog Data Population Time

Once you have entered the **username** and **password** information into the creation stage of the Deep Cover Avatar Varis retrieves the profile information, this process takes time.



## Building Your First User Keyword Library

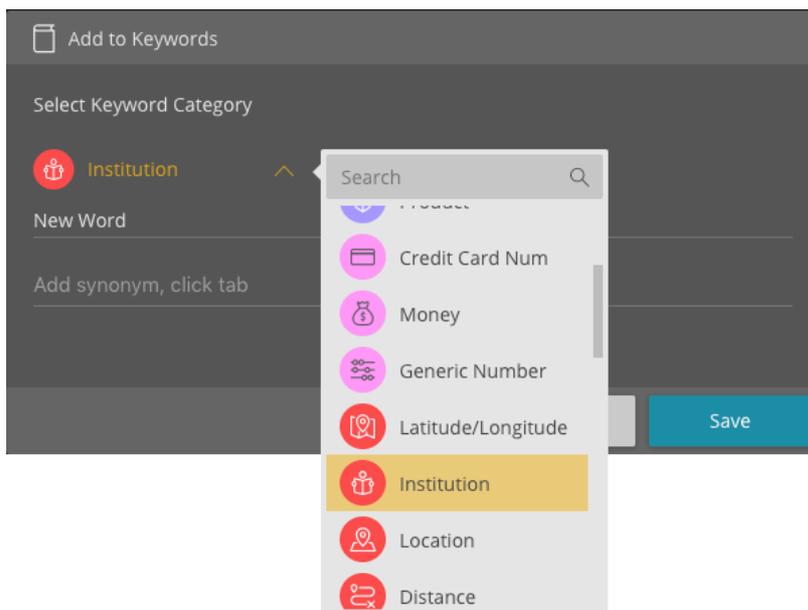
Before you start your investigation it's important to make a list of useful **keywords** you will use for the relevant search terms of the specific investigation. The use of keywords defines the focus of your search and takes priority over the internal **Varis Extraction Engine** that automatically extracts words divided according to word type category.

You can also add Blacklist Keywords to your investigation at any stage of data collection.

### Setting Up Your User Keywords Library

To create a keyword library for your investigation, perform the following:

1. Select the **Home** navigation view.
  2. Select the **Keywords** tab.
  3. Click on the **New Keyword** button to manually select the keyword category, then add a Keyword and its related synonyms (optional) to broaden the search parameters.
  4. Or, click on the **Upload CSV File** button to import a pre-defined list of keywords. (See the attached example CSV file).
-  Varis enables you to manually add one keyword at a time, the defined keywords appear in the **Keywords** tab list per case.



### Adding Synonyms to Your User Keyword Library

In addition to being able to add keywords to your investigation an additional and powerful option exists to provide you with a deeper and more effective search. Varis enables you to add **synonyms** to the Keyword. The addition of synonyms to a keyword help you focus the search and pinpoint specific target objectives by associating any relevant synonyms to a related keyword.



## Building Your First Keyword Blacklist

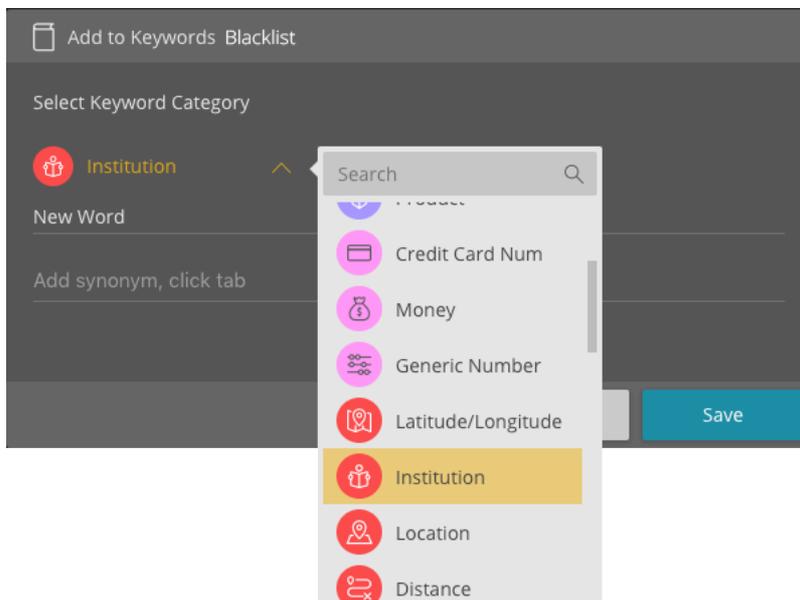
Before you start your investigation it's important to make a list of the **Blacklist keywords** you wish to exclude from the relevant search terms of the specific investigation. The use of a keywords blacklist defines the keywords that you want to exclude from the focus of your search.

The keyword blacklist is designed to delete words which are extracted as entities which they are not. For example: an apple is not a person.

### Setting Up Your Keywords Blacklist

To create a keyword blacklist for your investigation, perform the following:

1. Select the **Home** navigation view.
  2. Select the Keyword Blacklist tab.
  3. Click on the **New Blacklist Keyword**  button to manually select the keyword blacklist category, then add a blacklist keyword.
-  Varis now reloads the investigation and **excludes** the blacklist keyword from the **Filter by Keyword Category** Dialog, the investigation data is then refreshed.
-  Varis also removes any reference of the blacklist keyword from the **Extracted by Category Settings** dialog.



#### Important Note

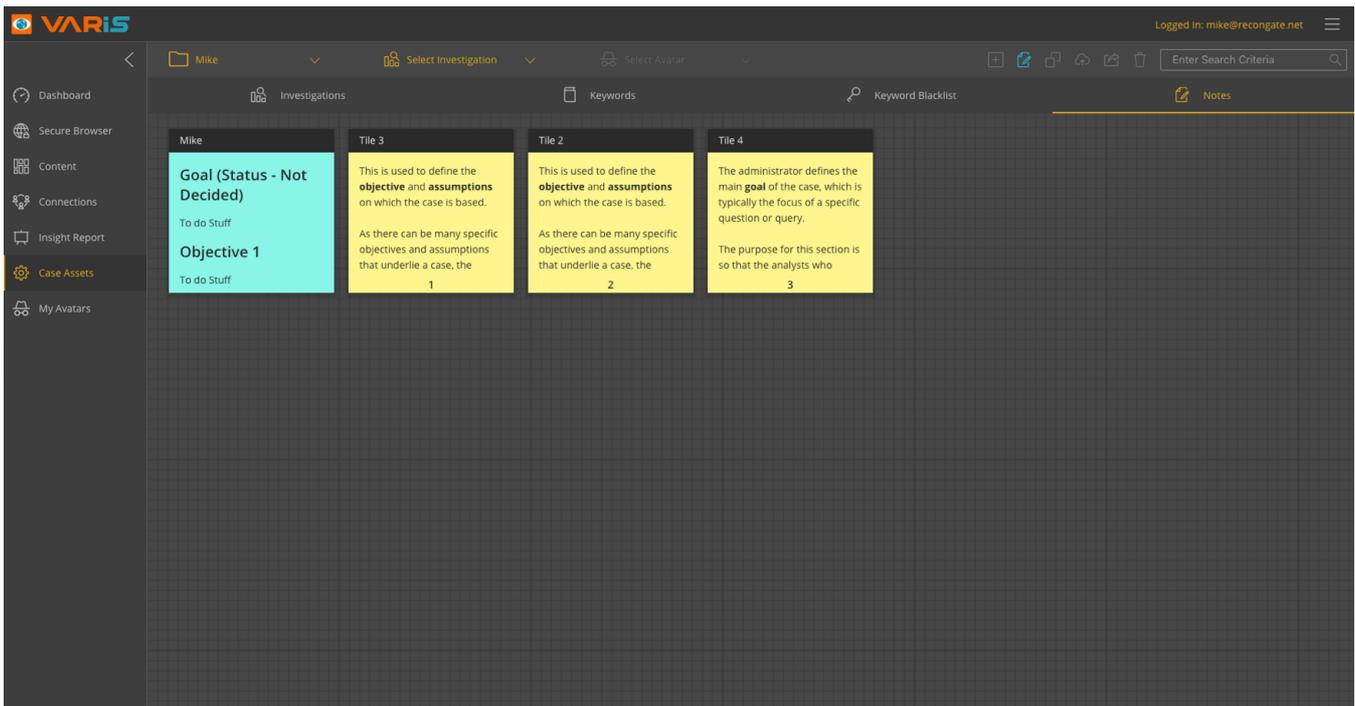
If you wish to add a blacklist keyword that already exists in the Keyword library, you will be prompted to remove the word from either the Keyword Blacklist or the Keyword library as it cannot appear in both.



## Using Notes to Keep Track of Your Investigation

As a **Case** can contain multiple investigations performed by multiple analysts, Varis provides you with a case centric **Notes** framework for inter-communication between analysts as well as the ability for the analyst to write important observations and findings throughout the case life cycle.

The notes are fully interactive and editable, and can be accessed by all analysts assigned to a specific case.



### Adding or Editing Notes

To add a note to an investigation, perform the following steps:

1. Click on the **New Note** button from anywhere in the application interface.
2. Enter a **note title** (mandatory) and then write the note content text.

-  Varis provides you with a full feature editor with all the common features for writing notes, such as heading types, font types, tables, import pictures as well as numbering and bullets.
-  The ability to add a note to an investigation is available from all the views within Varis enabling you to add notes when relevant throughout the investigation process.
-  All your investigation notes are placed in the case view in the Notes tab



## Scanning the Deep Web

Varis provides you with a powerful scraping mechanism called the **Scope** dialog. The Scope scraper provides you with the ability to automate the harvesting of data from a range of Social Networks, Search Engines and Websites.

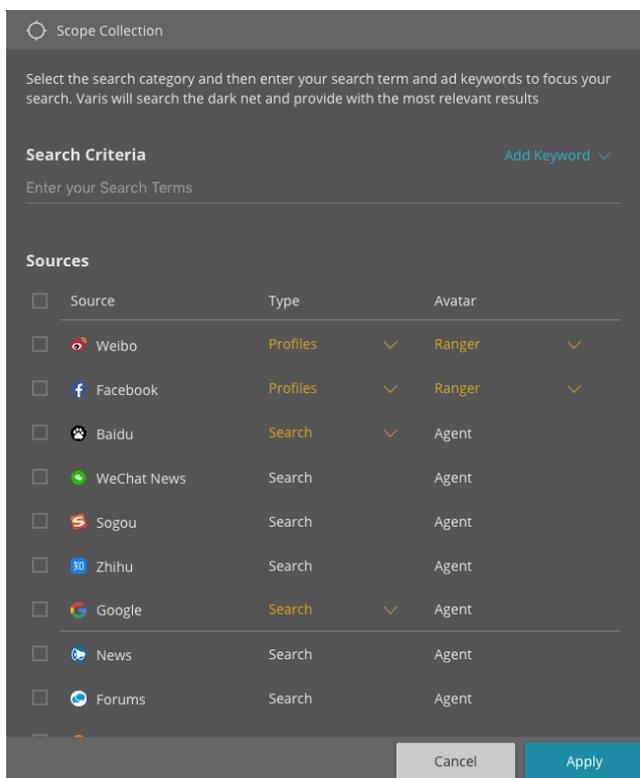
There are four main methods for performing a **Collection Task** the first is via the **Content** and **Connection** views using the **Scope Settings**, the second is by performing a **manual collection** task from the **Browser** navigation view by using the **Varis Browser Extensions** and the third by using the **Non-Secure External Chrome Browser Extension** and the fourth is an **enrichment collection task**.

## Setting Up the Automated Two Stage Scope Collection Task

To perform a scope collection task, perform the following steps:

1. Go to either the **Content** or **Connections** view options on the left navigation view and click on the **Scope**  button.
2. Add the **keyword** that you wish to include in the scope collection task by choosing them from the **Add Keywords** drop menu or by manually adding additional keywords by typing them into the input field and clicking the **ENTER** key after each new keyword entry.

 **Social Network Source** - Check the target source or sources from the list of options.

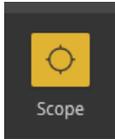


3. **Set the Social Source Config.** - Type, and select the avatar you wish to deploy for the specific scope scraping collection task.
4. Choose the date range for the scope task (**optional**).



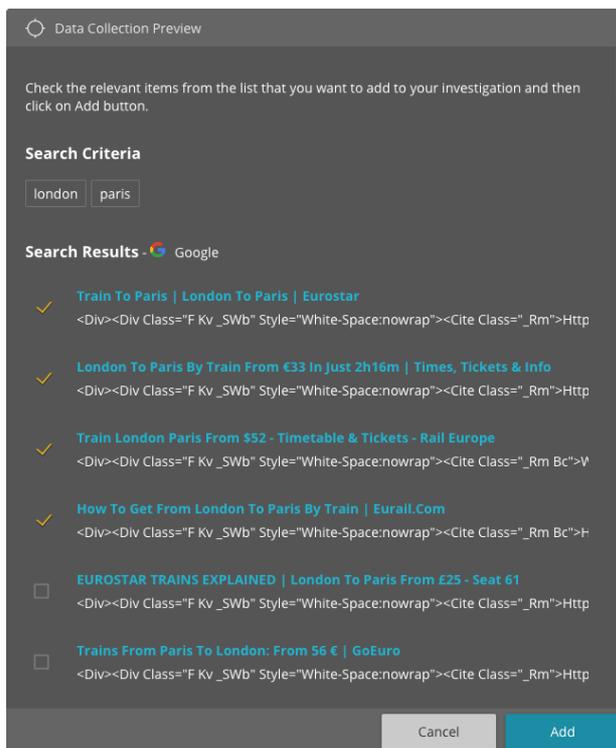
5. Select a specific forum from the select source drop menu maximum of three per scope collection task
6. Click on the **Apply** button to activate the scope **preview collection task**.

 Once the preview collection task is complete, the Scope Collection button turns **yellow** indicating that the results have been collected for review.



 Varis displays a collection **snippet preview list** and the user is then prompted to **carefully review the results** and select the specific items that they wish to collect and add to the investigation.

 You can perform a **BULK select** function by clicking on the first checkbox item and then holding down the **SHIFT KEY** and clicking on multiple items in the list.



7. Once the collection task is complete and Varis has collected data the **Refresh** button will light up, indicating that data has been collected.
8. **Refresh Data** - Click on the **Refresh Data** button to view the collected data.

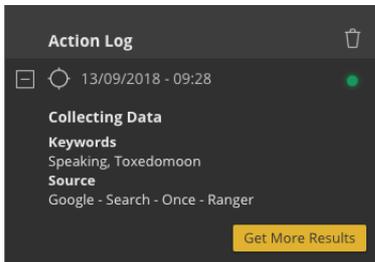


#### Note

There are no snippets for Facebook or Weibo posts.



- After you have made an initial selection and you would like to **get more** results from the **list of snippets** open the **“Action Log”** panel



- Select the **scope collection item** from the list and then click on the **Get More** button

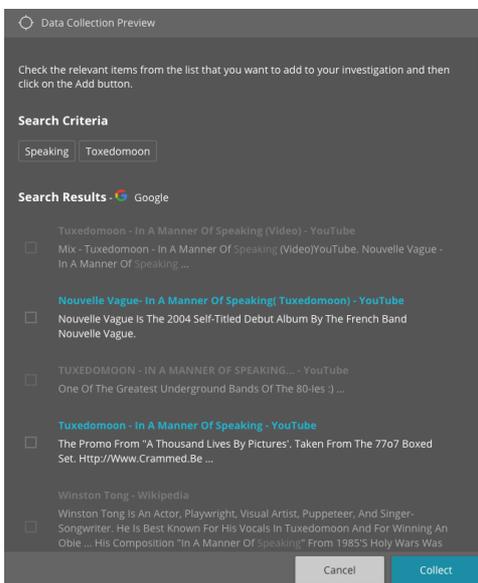


### Important Note

If Varis is in the process of collecting Data, the **Get More** button is greyed out and disabled. Click on the LED for more information.

- The **Data Collection Preview** panel will open and show the previously selected items already collected as **greyed out**

- Simply **click on the required source snippets** collect mode content from the search collection preview list of search results.



### Note

The greyed-out list items that appear in the list have already been collected into the system.



## Scope Collection

Enter your search term and add keywords and their related synonyms to focus your search for a specific topic or field of interest. Then, select the target source from the list of search engines, social networks, site types such as blogs, forums and news sites.

Scope Collection

Select the search category and then enter your search term and add keywords to focus your search. Varis will search the dark net and provide with the most relevant results

**Search Criteria** Add Keyword ▾

Enter your Search Terms

**Sources**

<input type="checkbox"/>	Source	Type	Avatar
<input type="checkbox"/>	Weibo	Profiles	Ranger ▾
<input type="checkbox"/>	Facebook	Profiles	Ranger ▾
<input type="checkbox"/>	Baidu	Search	Agent
<input type="checkbox"/>	WeChat News	Search	Agent
<input type="checkbox"/>	Sogou	Search	Agent
<input type="checkbox"/>	Zhihu	Search	Agent
<input type="checkbox"/>	Google	Search	Agent
<input type="checkbox"/>	News	Search	Agent
<input type="checkbox"/>	Forums	Search	Agent

Cancel Apply



### Important Note

**Scope Collection Tasks for Search Engines** – Varis collects all the HTML content of a target site including **text**, **pictures** and **hyperlinks**. It then expands all the links contained within the HTML (Does not extract content from PDF's or Excel files).

**The date ranger picker** can only be set to collect data that contains dates, if there are not dates on the target data it will not be able to differentiate between different data items.



## Baidu and Google Search Engine Operators

Use the following operators to improve and focus your search results.

<b>"search term"</b>	Forces an exact-match search. Use this to refine results for ambiguous searches, or to exclude synonyms when searching for single words.
<b>OR</b>	Search for X or Y. This will return results related to X or Y, or both. Note: The pipe ( ) operator can also be used in place of "OR."
<b>AND</b>	Search for X and Y. This will return only results related to both X and Y. Note: It doesn't really make much difference for regular searches, as Google defaults to "AND" anyway. But it's very useful when paired with other operators.
<b>-</b>	Exclude a term or phrase. In our example, any pages returned will be related to jobs but not Apple (the company).
<b>*</b>	Acts as a wildcard and will match any word or phrase.
<b>( )</b>	Group multiple terms or search operators to control how the search is executed.
<b>filetype:</b>	Restrict results to those of a certain filetype. E.g., PDF, DOCX, TXT, PPT, etc. Note: The "ext:" operator can also be used—the results are identical.
<b>site:</b>	Limit results to those from a specific website.
<b>related:</b>	Find sites related to a given domain.
<b>intitle:</b> <b>Google Only</b>	Find pages with a certain word (or words) in the title. In our example, any results containing either "apple" or "iphone" in the title tag will be returned.
<b>allintitle:</b> <b>Google Only</b>	Similar to "intitle," but only results containing all of the specified words in the title tag will be returned.
<b>inurl:</b> <b>Google Only</b>	Find pages with a certain word (or words) in the URL. For this example, any results containing either "apple" or "iphone" in the URL will be returned.

## Add New Keywords to the Scope Collection Task

The correct method for adding keywords to an investigation is from the home view in the Keywords Tab at the beginning of the creation process. Although it is possible to enter new keywords when deploying the **Scope Collection** task.



### Important Note

If you decide to add additional keywords in the scope settings dialog they will be added to the **Indicative Text** category by default.



## Scope Data Collection Tasks

When Varis performs a **Scope Collection Task** the number of items collected and the depth of content varies according to data type. Certain limitations exist depending on the specific data source such as **Social Networks** and **Search Engines**. These limitations derive for several reasons, both built-in to the specific source or by design so as not to gather redundant information or overload the system.

### Personal Profile Auto About

When collecting Social Objects such as personal profiles Varis automatically collects the Profile About details without having to manually enrich each profile account. The enrich function is automatically performed when selecting up to ten personal profiles at a time. (You cannot perform a bulk enrich function above this amount).

### Social Networks/Pages/Groups/Events/Posts and Search Engine Collection Task

When performing a scope collection task for a specific social network personal profile, group, event or search engine the scope collection task collects up to **the first 100 results**.



#### Note

Social Networks provide a wide range of profile and additional page types each with their own sets of limitations and restriction, these page types vary greatly, therefore **the amount of data collected also varies**.

### Forum Collection Tasks

When performing a scope collection task for forums the scope collection task collects maximum of **100 posts per selected forum site**. (Baidu returns 150 results)

### Forum Thread Collection Timeframe

When a scope collection task is performed on a forum discussions thread, it is configured to collect data for up to three months prior to the current date by default.

If you want to collect a larger previous time frame of discussion thread data, then you must use the date range picker to increase the collection range.



## Scanning the Dark Net

The dark net is world wide web content that is only accessible via special software that allows you to remain anonymous or untraceable. The dark net overlays the internet requiring you to use specific software, configurations and authorizations to access extremely private content or illicit or illegal services. Varis enables you to easily search the dark web and collect valuable content via a simple and easy to use search mechanism.

### Dark Net Access

Perform the following task to effectively search and collect data from the dark net:

1. Go to either the content or connections view and click on the **Scope Collection – Dark Net** button.



2. Then, select the query method that you wish to use to focus your search.  
**Collection Date** – Per Dark Net database snapshot collection date.  
**Title** – According to the title of the document name.  
**Type** – According to the type of data.  
**Creator** – Search for a data source by the creator name  
**Website** – Search for data according to the website name.

Scope Collection - Dark Net

Enter your search term and add keywords to focus your search, then select the target sources. Try to limit the amount of selected sources, as selecting too many will effect performance

Search Criteria Add Keyword ▾

🔍 Select Search Criteria ▾ Enter your Search Terms

Sources

<input type="checkbox"/>	Dark Net	Type	Collection Type
<input type="checkbox"/>	🔍 Dark Net	Search	Agent
<input type="checkbox"/>	👤 Dark Forums	Search	Agent
<input type="checkbox"/>	🛒 Marketplaces	Search	Agent

<input type="checkbox"/>	Restricted Net	Type	Collection Type
<input type="checkbox"/>	📧 Telegram	Search	Agent
<input type="checkbox"/>	👤 QQ Groups	Search	Agent
<input type="checkbox"/>	🗣️ MIRC	Search	Agent
<input type="checkbox"/>	📄 Paste Sites	Search	Agent
<input type="checkbox"/>	🔗 Reddit and Github	Search	Agent

Cancel Apply



3. Enter your user keywords search criteria.
4. Click on the **Apply** button and wait for the results.

 The dark net content appears with a dark net icon to distinguish itself from data collected from the surface web.

 All the **Dark Net** data collected is marked with the following icon:



## Dark Net Query Syntax Table

To build queries for performing simple and advanced searches the search engine, use the following syntax described here.

### Search Field Types

You can search for keywords in any of the following fields, just type one of the following terms and then add a colon.

Creator  
Type  
Title  
Website  
Collection Date

### Operators

You can use the following operators to define advanced keyword queries:

**AND** - displays results containing all keywords in the fields you defined

**OR** - displays results containing any of the keywords you defined

**NOT** - displays results not containing the keyword in the field you defined

**()** - use to group clauses to form sub queries

### Wildcards

? - single character wildcard search

\* - multiple character wildcard search

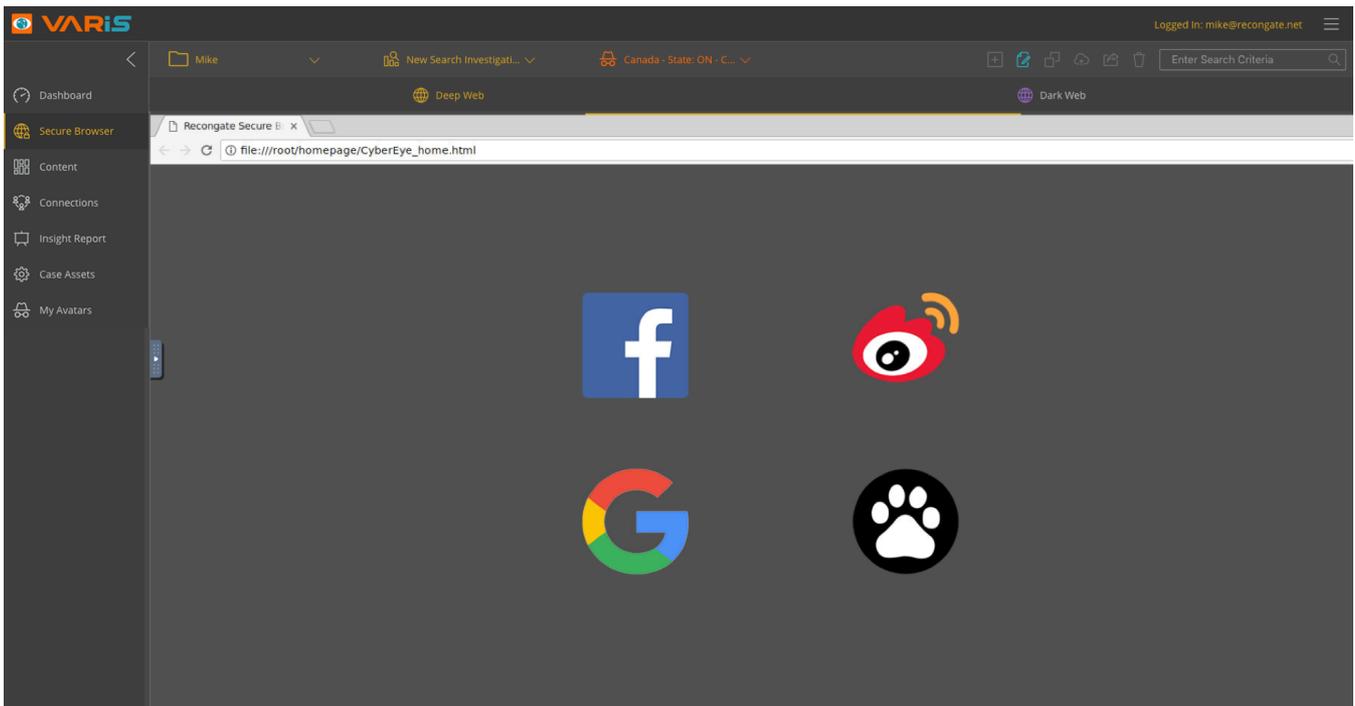


## Manually Collecting Data in the Browser View

In addition to being able to perform configurable **scope collection** tasks Varis also enables you to perform manual collection by using the one of two methods. The first, is the **Varis Secure Browser Extension** from within a secure web browser environment and the second method is by installing the **ReconGate Non-Secure Chrome Browser Extension**.

### Varis Secure Browser Extension Collection Depth

The **Varis Secure Browser Extension** collects all the HTML content of a target site which includes all of the text, pictures, links contained there within.



### Manual Secure Browser Collection Process

To perform a manual browser collection task, perform the following steps:

1. Select the **Browser** navigation tab.
2. Select the investigation
3. Choose an Avatar or a **Secure Browser Agent** from the **Select Avatar** drop down menu.
4. Click on the **Deep Web** tab to activate the secure browsing session.
5. Click on the Varis icon located in the top right-hand corner of the browser tool bar.
6. Select the social network or search engine from the available options.
7. Start collecting data.



### Important Note

When creating and/or activating a **Deep Cover Avatar** or a **Ranger** you must go to the actual social network website and input the credentials to verify that they are correct and the specific profile is activated.

**Ranger** - A ranger is a **simple social network personal profile** used by Varis to harvest and collect data from the web.

### Secure Browser Collection

When you perform manual data collection via the built-in browser, Varis automatically detects the target page type, whether it's a **social network page or search engine page** and collects the same amount of results when performing a **scope** and **enrich** data collection task for these target page types.

### Data Collection on Demand

As you **scroll down** pages and additional page content is loaded into the browser (comes into view), Varis expands the collection task to include the additional content on demand.



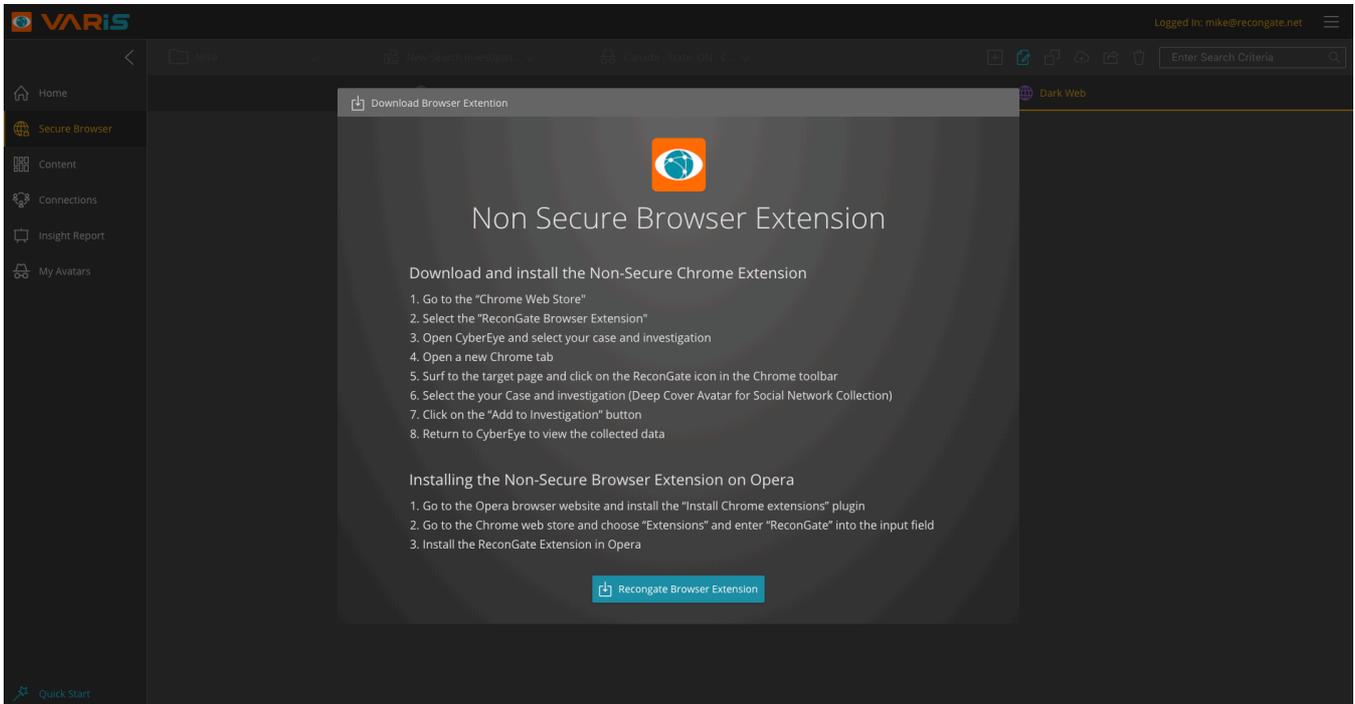
### More Information

For more information regarding specific data collection tasks, **see Scope data collection and Enrich Tasks.**



## Non - Secure Browser Extension Download Options

Download the **Non-Secure Browser Extension** from the **hamburger drop menu** in the top right corner of the Varis application header.





## Add the Chrome Non-Secure Browser Extension

To directly install the browser extension directly into your browser, click on the **“Add to Chrome”** button to automatically install the extension and start collecting data.

If you want to install the ReconGate browser extension on your Opera browser, then you need to first install the **“Install Chrome Extensions”**, once you have successfully installed it, then go to the **“Chrome Web Store”** and install the ReconGate Extension pictured below.

The screenshot shows the Chrome Web Store page for the ReconGate extension. At the top, there is a header with the ReconGate logo, the name 'ReconGate', and the text 'offered by chp'. Below this, there are five stars and '(0)' reviews, a 'Productivity' category tag, and '16 users'. A blue 'ADD TO CHROME' button is prominently displayed. The main content area features a large orange banner with the ReconGate logo and the text 'Browser Collection Tool'. To the right of the banner, there is a 'Compatible with your device' checkmark, a 'Collect directly from your browser.' note, and a 'Report Abuse' link. Below this, an 'Additional Information' section lists: Version: 3.0.41, Updated: January 2, 2018, Size: 6.99MiB, and Language: English. At the bottom, a 'RELATED' section shows a carousel of other extensions: StayFocusd (6620 reviews), Toggl Button: Productivity & Time (1230 reviews), Productivity Owl (311 reviews), and Ultidash - New Tab (154 reviews).



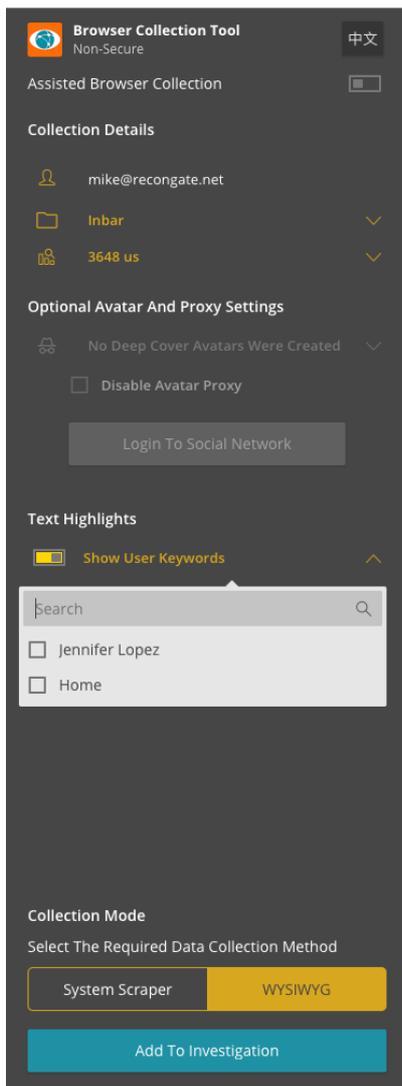
## Using the Varis Non-Secure Browser Extension

Varis now provides you with the ability to collect web content on the fly via a new **Non-Secure** Chrome browser extension. Simply login to Varis, go to the **Browsers** view in Varis, then download and install the **ReconGate Chrome Browser Extension** in your Chrome or Opera browser.

### Installing the Non-Secure Browser Extension on Chrome

Perform the following steps to download and install the Non-Secure Browser Extension:

1. Click on the Non-Secure Chrome Extension Download button
2. Drag the extension from your downloads folder to your Chrome Extensions
3. Open Varis and select your case and investigation
4. Open a new Chrome tab
5. Select your target **case** and **investigation** in the browser plugin interface
6. Surf to the target page and click on the ReconGate icon in the Chrome toolbar
7. Click on the **Add to Investigation** button
8. Return to Varis to view the collected data



### Non-Secure Chrome Browser Extension

Open a new tab in your chrome browser and go to the **target web page** that you wish to collect.

1. Select the target **case** and **investigation** from the drop menu. (Default set to reflect Varis)
2. Then select an Avatar (optional)
3. Continue to **repeat this process** until you have collected enough data
4. **Return to Varis** and view the collected data in the view of choice.
5. Remember to monitor and **refresh** newly available data and add it to your investigation.

### Text Highlights

1. Turn on the Show User Keywords toggle switch to highlight the user keyword on the source website HTML page to quickly and easily find your target search content items of interest.
2. Select either all or individual user keywords to be highlighted on the source content of the website.



## Installing the Non-Secure Browser Extension on Opera

Perform the following steps to download and install the Non-Secure Browser Extension:

1. Go to the Opera browser website and install the **Install Chrome extensions** plugin
2. Go to the Chrome web store and choose "**Extensions**" and enter "**ReconGate**" into the input field
3. Install the ReconGate Extension in Opera
4. Open Varis and select your case and investigation

## Browser Extension Collection Methods

You can employ one of two different types of browser extension methods.

### System Scraper

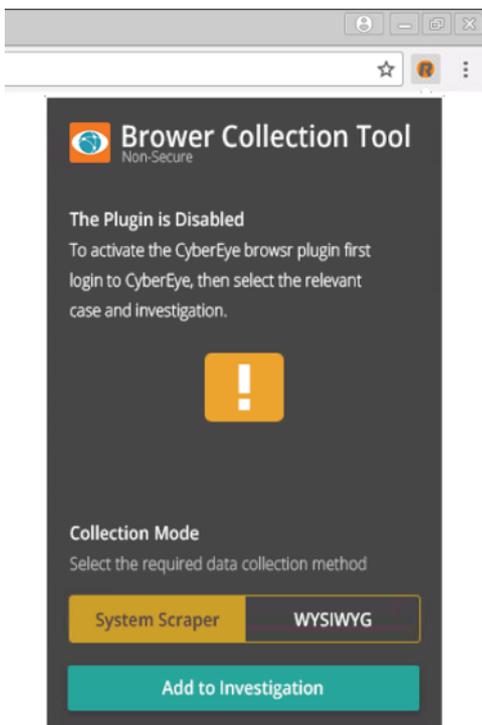
The "System Scraper" scans the target web site via the URL address and recognizes the page type, and then initiates the relevant scraper. If the URL is not recognized, then it automatically generates a generic scraper.

### WYSIWYG

When you select the "What You See IS What You Get" option then the browser extension collects the document object model (DOM), which means that it collects everything that you view on the page.

## IMPORANT

If you open your chrome browser and the **ReconGate Chrome Browser Extension** opens and displays the following screen, then you must first login to Varis and select your case and investigation. Then, refresh the browser.



## Synchronizing the Browser Extension to Varis

Once you have successfully logged in to Varis, then return to the non-secure browser, check that the browser extension is synchronized to your case and investigation and start collecting data.

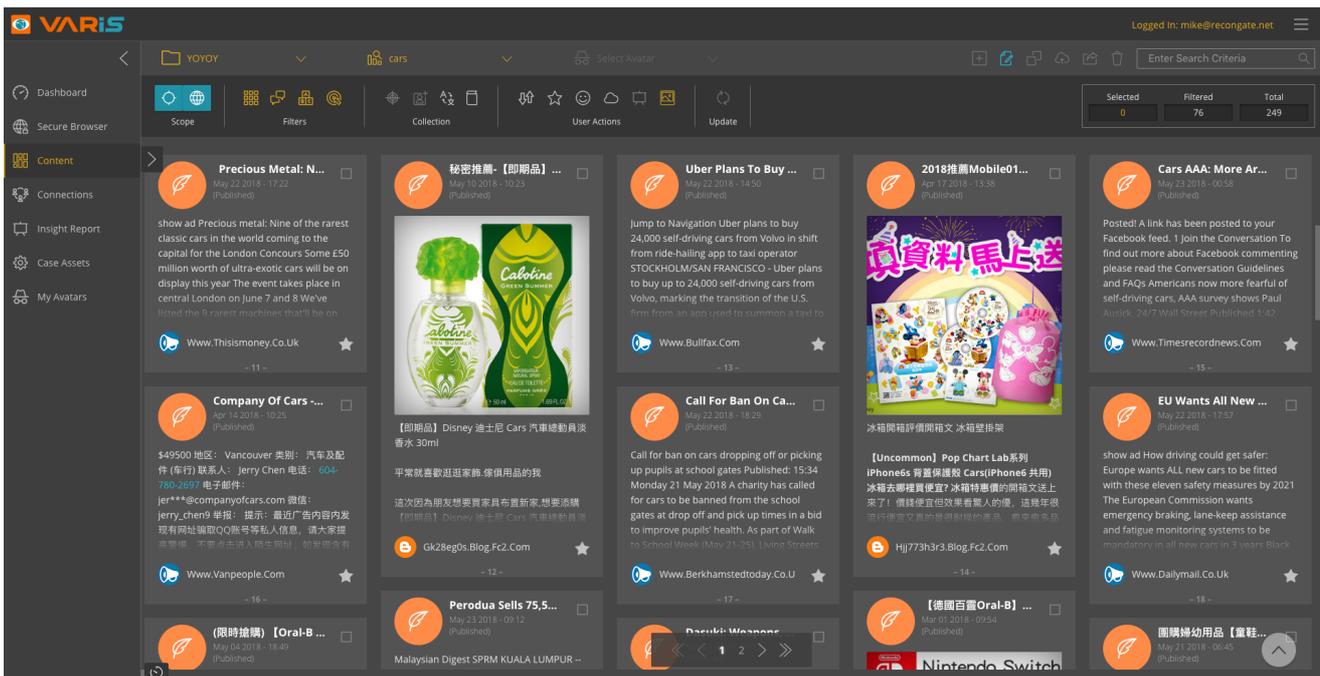


## Viewing Collected Data in Varis

Once Varis has successfully collected data from the web, the data is then collated into the system and divided according to data type. The data can be viewed using two main views, the **Content View** and the **Connections View**.

### Content View

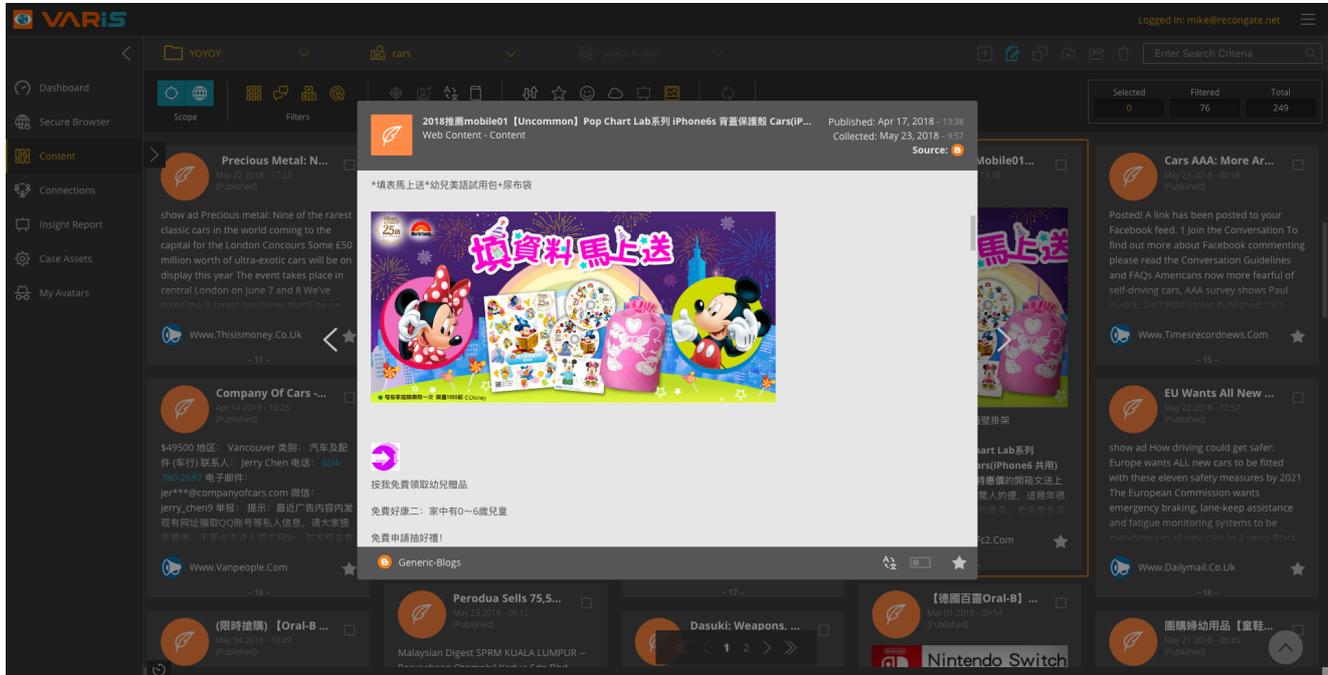
The Varis content view displays the collected data and aggregates the data per type. These types include **posts** and **articles**. These items are referred to and displayed as tiles in the content view.





## Extended Details Popup Dialog

Clicking on a content tile opens the extended details popup dialog that displays the collected content and provides you with the ability to click on a source content hyperlink that automatically opens a browser tab with the original web content and copies the URL to the computer clip board.





## Content Posts and Comments

Varis allows you to collect post comments and their sub comments from social networks. When viewing a post, its comments and sub-comments, Varis calculates the number of comments for each post according to two main methods as they are employed in the different social network providers.

The Facebook total amount of comments includes the number count of only comments, and does not include the sub-comments reflecting the way that it appears in Facebook.

The Weibo comments on the tile include both Comments and Sub-comments in the total calculation.

**Abby Martin**  
Web Content - Content  
👍 127 🔄 4 📄 6 / 10

Published: Feb 1, 2018 - 17:18  
Collected: Jun 13, 2018 - 18:46  
**Source:** 

I couldn't bear to watch Fuckface von Clownsticks' State of the Union after Sarah Huckabee looked into the camera & told everyone it was going to be "must-watch TV" – did I miss him \*becoming **president\*** again?

 **Comments** - 6

**Shuvo Ghosh** Feb 2, 2018 - 1:23  
Oh my god he's like the leftover word salad at the greasy global indebtedness buffet at closing time, now that the famous melting pot of soup has boiled over and burnt, making the whole joint a health risk for vermin and a fire hazard. Looks like the ' ... See more

**Giovanni Giusti** Feb 2, 2018 - 2:08  
How about how he only looked to his left during the whole thing?

**Sue Ciardelli Martin** Feb 2, 2018 - 4:38  
I only watched a few highlights after the fact and I was sooo happy I didn't watch in real time for three reasons; 1) I couldn't stand to hear him spew his lies, 2) I couldn't stand to see that vomit inducing Mussolini face with raised chin he makes wh ... See more

**Nathan Janes** Feb 3, 2018 - 18:13  
That's why I love ya!

**Sue Ciardelli Martin** Feb 2, 2018 - 4:38  
I only watched a few highlights after the fact and I was sooo happy I didn't watch in real time for three reasons; 1) I couldn't stand to hear him spew his lies, 2) I couldn't stand to see that vomit inducing Mussolini face with raised chin he makes wh ... See more

**Nathan Janes** Feb 3, 2018 - 18:13  
That's why I love ya!

 Facebook   

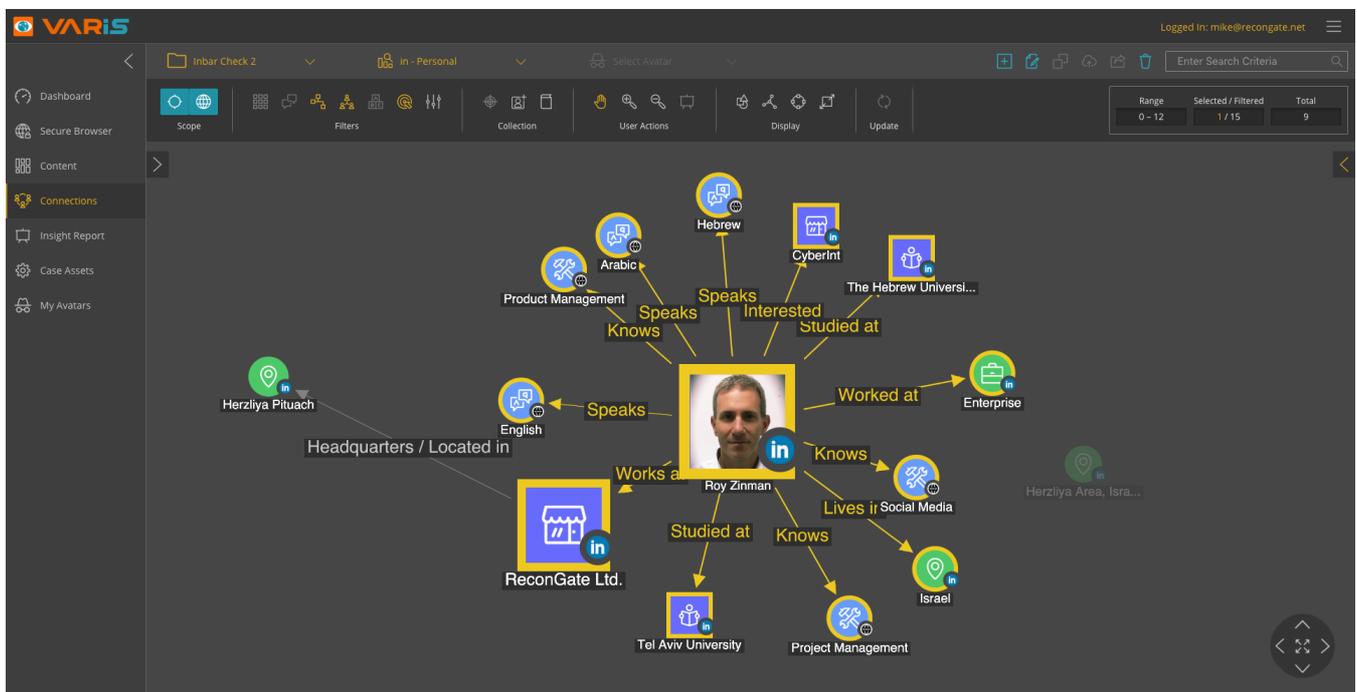


## Connections View

The connections view is designed to display all the previously mentioned **posts, comments, shares** and **articles**, as well as the **extracted keywords** and the **automatic keyword categories** Natural Language Processing (**NLP**) based related to them. They are all displayed using colored icons for quick reference, referred to as **nodes** in the **connections view**. In addition to the collected written data collected by Varis, the connections view also displays the **personal profiles** that both authored the posts, comments and articles, as well as all the **social network personalities** that interacted with the content.

### Connection Lines Between Nodes

The connections view shows connection lines between the individual nodes. These connection lines are defined **by connection type**.





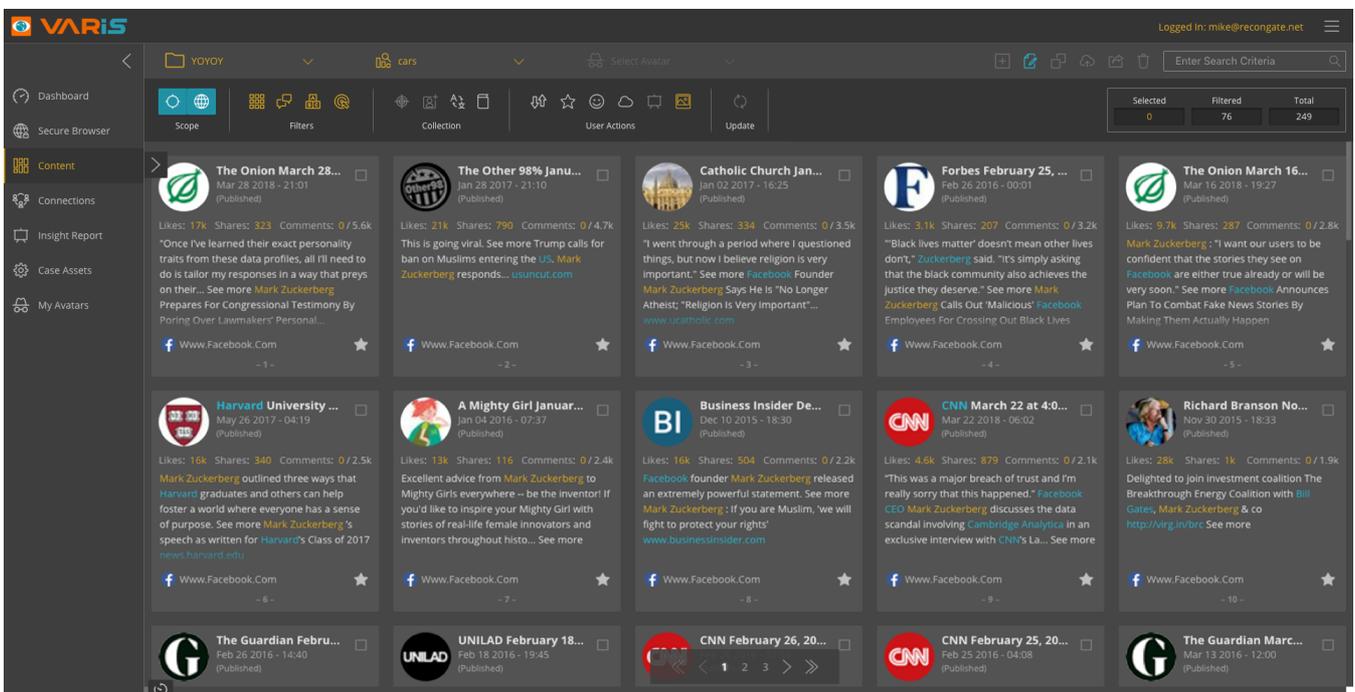
## Viewing Collected Data in the Content View for the First Time

Once Varis has successfully collected data the **Refresh Data** button lights up indicating that data has entered the system - you then click the button to load the collected content and display it on the canvas.

### Content View - View Raw Collected Data

Varis displays all the raw data collected by the scope or **manually collected** via the manual browser plugin. Now that the **raw data** is visible in the **Content view**, it is now time to start filtering the content and extrapolate meaningful results.

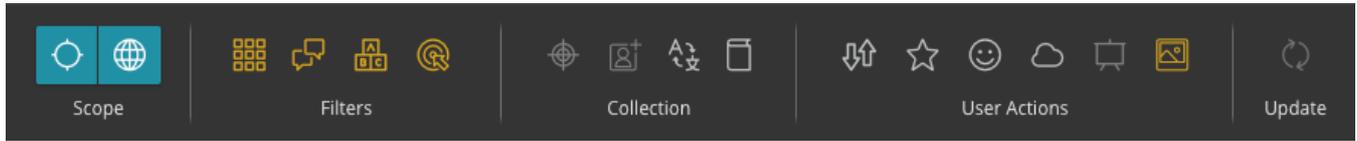
This is performed by utilizing a set of filters that you use to deduce insights and understandings. Varis employs a system of **deductive data analysis reasoning (DDAR)** enabling you to systematically reduce the displayed content until you reach the target results.





## Content View Toolbar Control Ribbon

The **Content view** toolbar controls are divided per action type:



### Filters

The filter actions enable you to manipulate the represented data in the content view per a wide range of filter options.

### Collection

The data actions enable you to deploy scope data collections, focused search, enrich existing data, translate and add new keywords to your investigation library.

### User Actions

Enable you to sort the order of the represented data tiles, view your favorites, sentiment analysis, word cloud and pin to insight report., show or hide images.

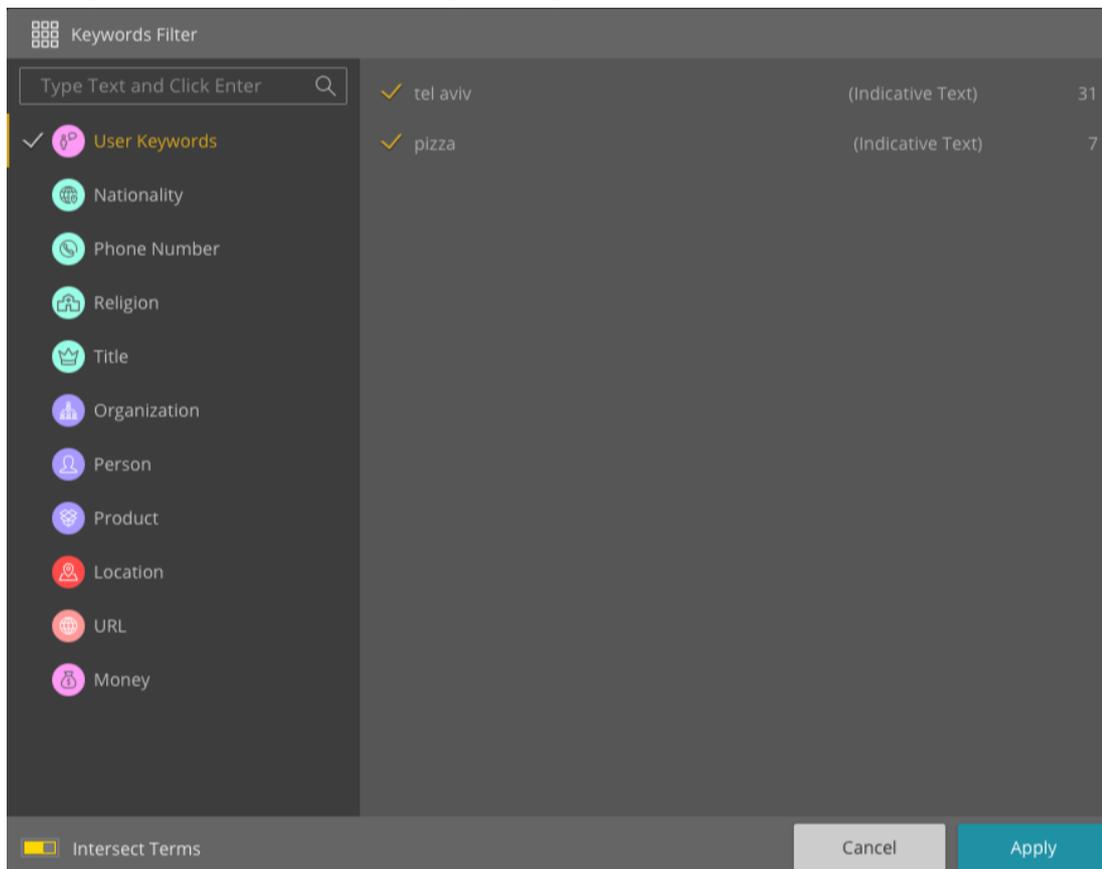
### Update

When a collection task is complete the refresh data button lights up indicating that new data has arrived and is ready for loading into Varis



## Keyword Filter

The Keyword Filter dialog displays all the **User Keywords** (set by the user) as well as automatically collected keywords that are extracted by **Varis Extraction Engine** (VEE) according to the different pre-defined categories. You can then **check** or **uncheck** the relevant items you wish to display. The numbers to the right of each of the entries represents the amount of times a particular word appears in the investigation.



### Free Text Filter – Search

You can quickly search for a text items you are looking for by entering the required search term and clicking the enter button to view the textual results that exist in the investigation.

### User Keywords

All of your User Keywords that you have entered into your Varis case appear in the User Keywords tab and display the number of occurrences that they appear in the data that you have collected into your investigation.

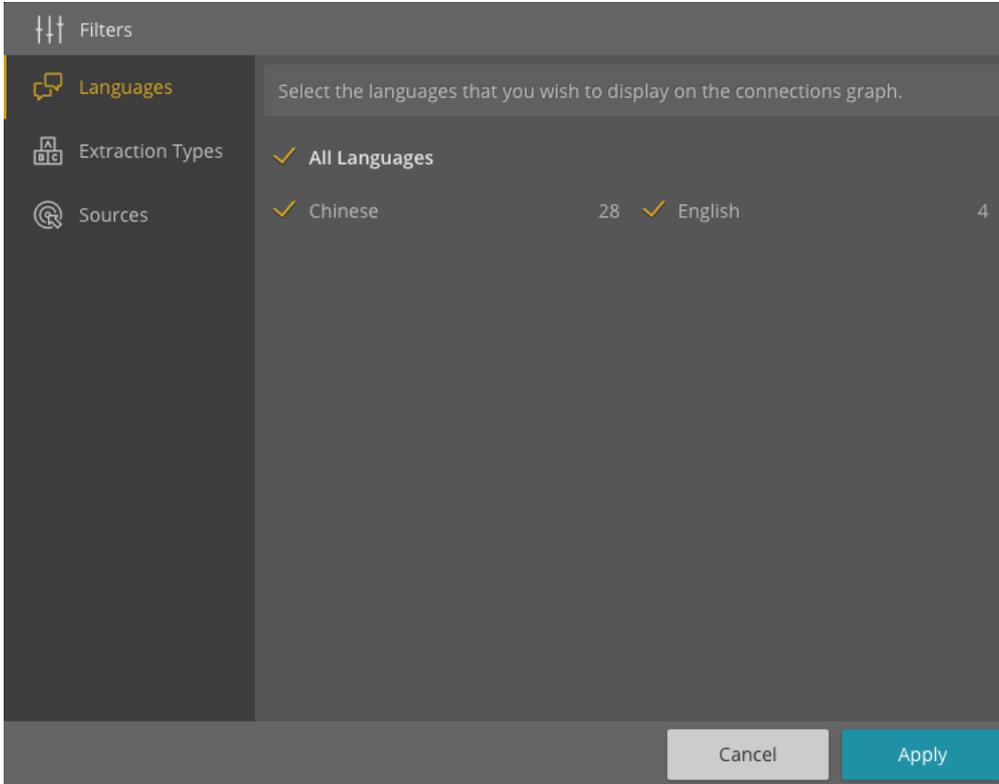
### Intersect Terms – Content View ONLY

By turning on the **Intersect terms** toggle switch you can filter content items that ONLY contain all the selected terms that you have check-boxed. You can select a maximum of up to 20 terms when performing an **intersect terms task**.



## Language Filter

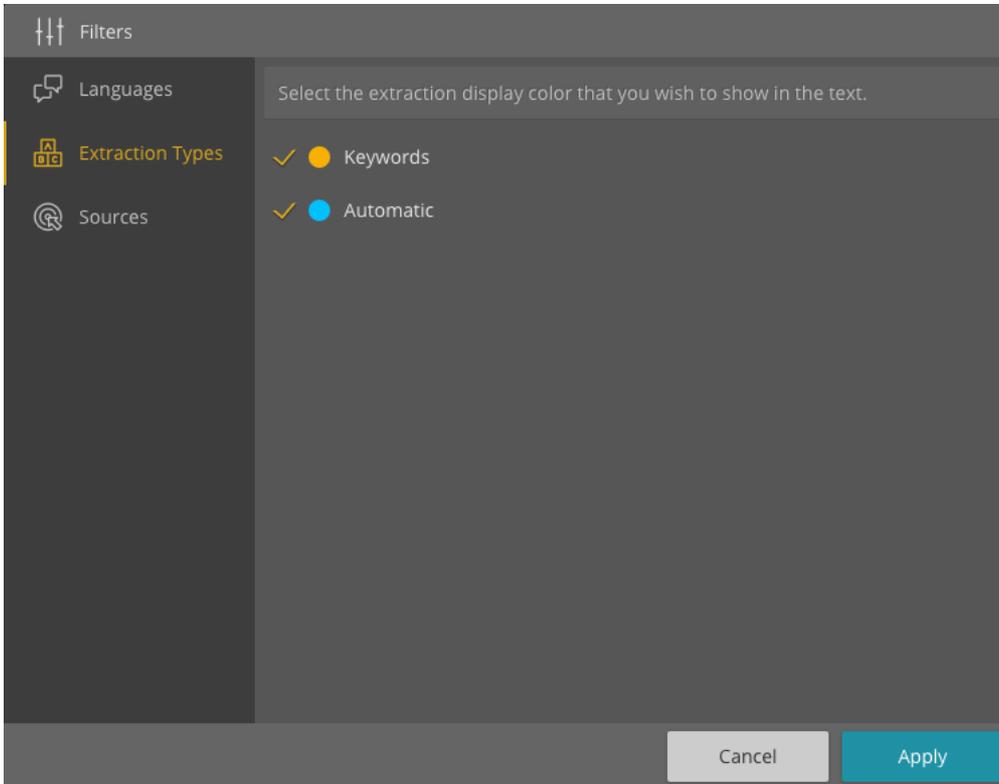
You can simply and easily filter collection results according to a specific language by checking the relevant language or languages you wish to display. The numbers to the right of each language show that amount of results that have been collected for a specific language.





## Extraction Types Filter

Varis provides you with a powerful yet simple **color coded visualization** tool that can be used to highlight both the automatically extracted keywords, and their inherent categories, as well as the user specific defined keywords that were entered into the system.



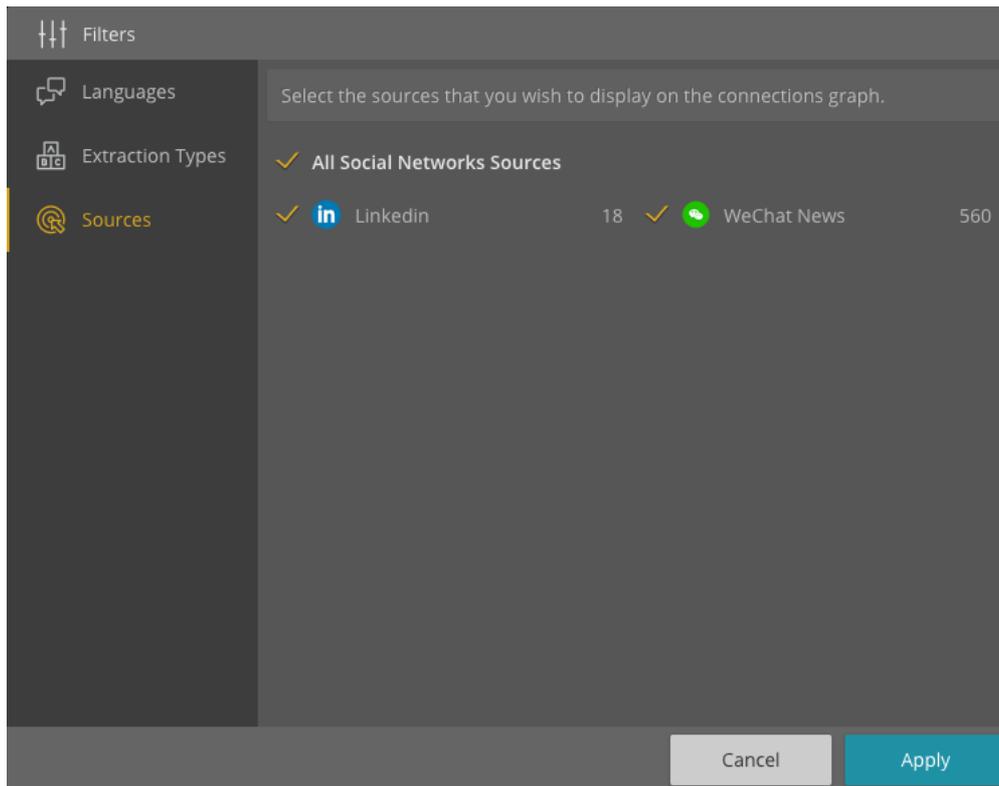


## Source Filter

Use the **Filter by Source** to view the collected results per the social network sources and search engines, enabling you to focus your attention on a specific type of network or search engine.

### Source Item Counter Numbers

The numbers to the right of each source types shows that amount of each source type results that have been collected including all the extracted Keyword categories attached to each of the content node item collected.



### Source Options Available in Varis

Varis provides a wide variety of online sources for data collection from the web. These are exterior third party sources. ReconGate cannot guarantee their availability, should a source become unavailable.

### Data Source Types

Varis enables you to collect data from a wide range of sources that include social networks, forums, blogs, new sites and search engines. These sources are dynamic in nature and the list of sources is constantly being updated. Contact our support for an up to date list of online content available to Varis.



## Recon Translate Data Action



Recon Translate is a multilingual machine translation mechanism that automatically translates the original collection language text into Chinese. Recon Translate supports over 100 languages at various levels.

## Adding Keywords to Your Investigation

The ability to add **Keywords** to a collection task as well as the **keywords related synonyms**, provides you with a powerful method for performing a deep search for specific fields of interest. You can add as many keywords and synonym collections to your investigation as you like.

Dialog box titled "Add to Keywords". It contains a "Select Keyword Category" dropdown menu currently set to "Indicative Text". Below this is a "Keyword" input field. The input field contains a list of keywords: "access", "Magic formula", "password", "secret sign", "abraxas", "key", "opener", and "watch word". Below the list is a text input field with the placeholder "Add synonym, click enter". At the bottom right of the dialog are "CANCEL" and "ADD" buttons.



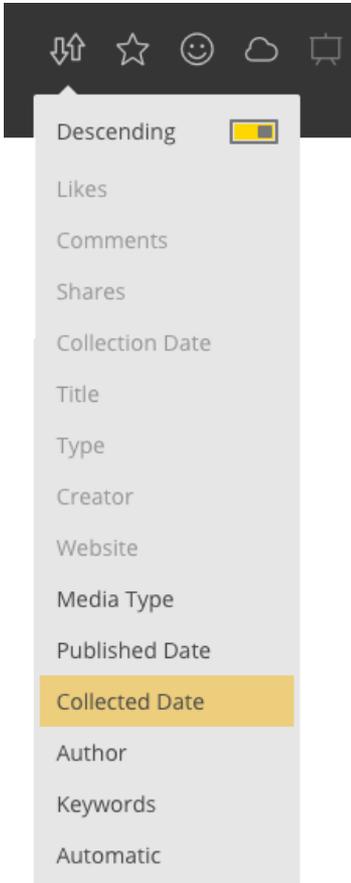
### Important Note

Add one keyword at a time so that you can easily edit your keyword collections in the **Keyword** tab located in the **Home** navigation view.



## Sorting Your Content Results

When dealing with large amounts of collected content, Varis employs a wide array of filtering and sorting mechanisms enabling you to quickly and easily sift through the data. Use the Sorting control to manipulate the collected content display layout.



**Descending / Ascending** – The direction of the content flow

**Likes** – Social Network Filter Type

**Comments** – Social Network Filter Type

**Shares** – Social Network Filter Type

**Collection Date** – The date that the content item was collected from the **Dark Net** into Varis

**Title** – The title of the **Dark Net** content item

**Type** – According to the file type

**Website** – According to the name of the specific website

**Media Type** – Generic Filter Type - Pictures

**Published Date** – The publication date of the specific content item

**Collected Date** - The date that the content item was collected into Varis

**Author** - The author of the specific content item

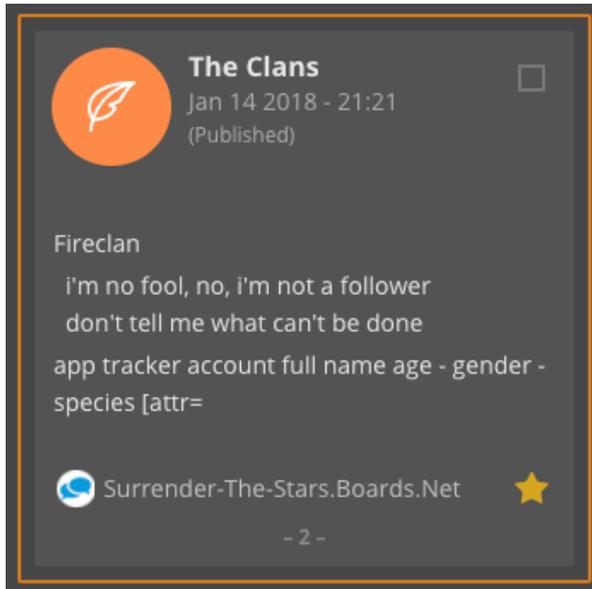
**Keywords** - According the user keywords found in the specific content item

**Automatic** – According to the automatic category extraction types found in the content items



## Favorites

Varis provides you with the ability to easily create a **Favorites** collection of content items by simply clicking on the **Star icon** that appears in the bottom right corner of each tile and extended popup dialog. This filter is designed to provide you with a quick method for placing preferred collection items in a safe place for later examination or use in an Insight Report.



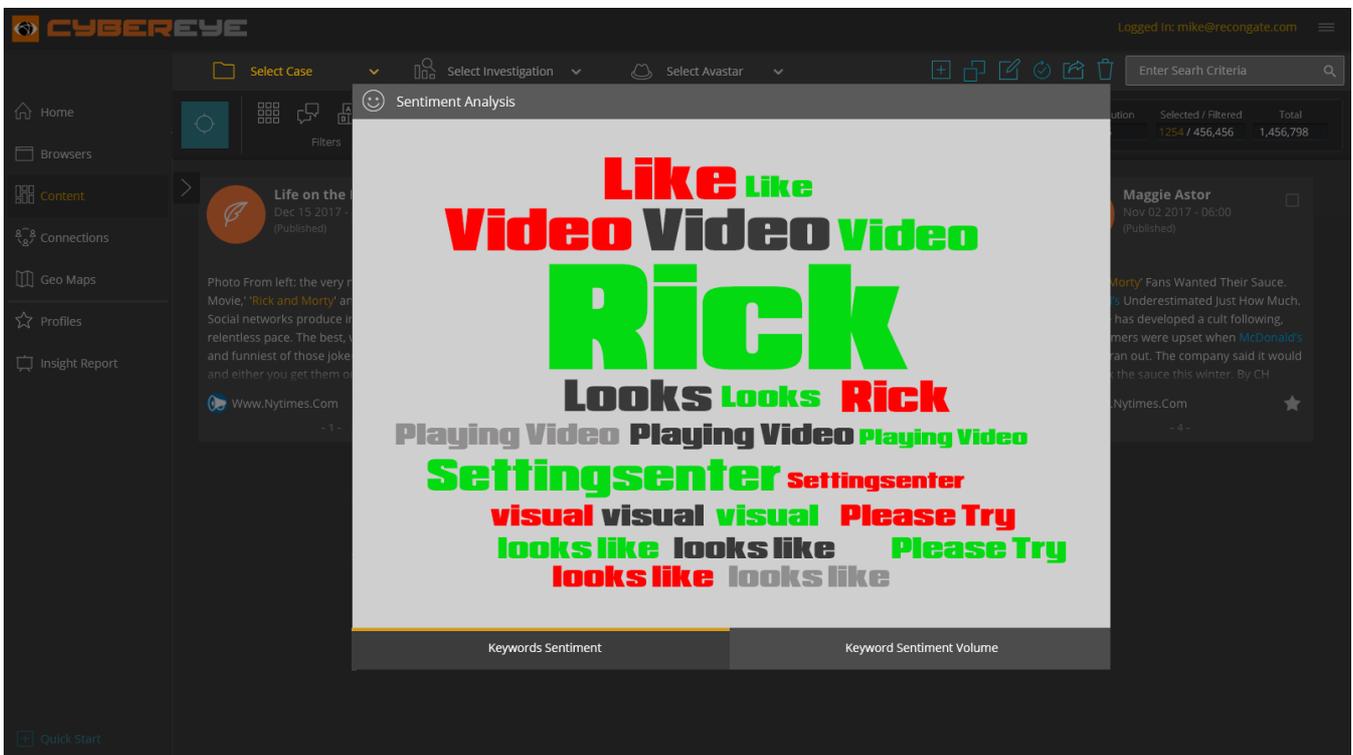


## Sentiment Analysis

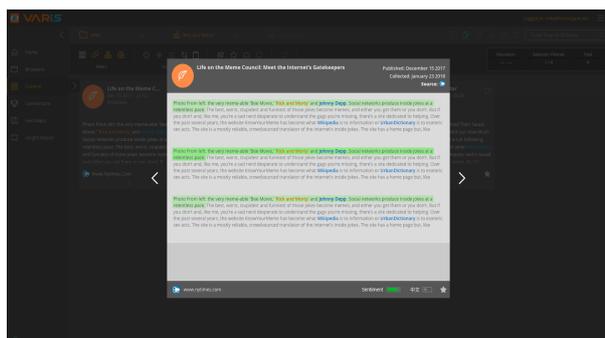
Varis provides you with a powerful opinion mining tool that automatically identifies and extracts the subjective states of your keywords in your investigation. Varis provides you with the attitude judgement for your keywords as either **positive**, **negative** or **neutral** and color codes them to make it easier for you to distinguish between them via two powerful mechanisms.

### Keyword Sentiment

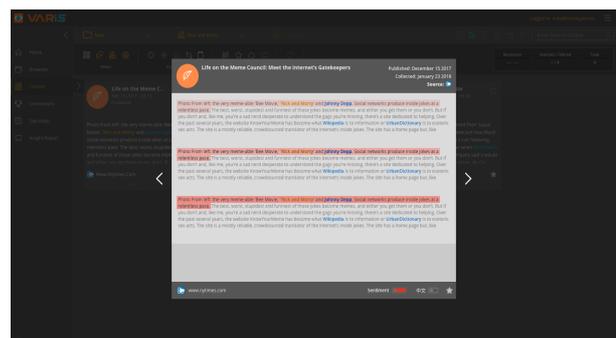
The keyword sentiment tab view displays the case level keywords in reference to the investigation being viewed. It shows the keywords according to the volume that they appear in the specific **investigation by size**. The larger the keyword size represents the amount that the keyword appears in the investigation. The second factor that is displayed is the color, **green indicates a positive** reference, **grey a neutral** reference and **red a negative** reference. Simply click on the specific keyword in order to filter the investigation content tiles to expose the specific keyword items and then view their sentiment in the context of a sentence.



### Positive Sentiment Keywords in a sentence



### Negative Sentiment Keywords in a sentence

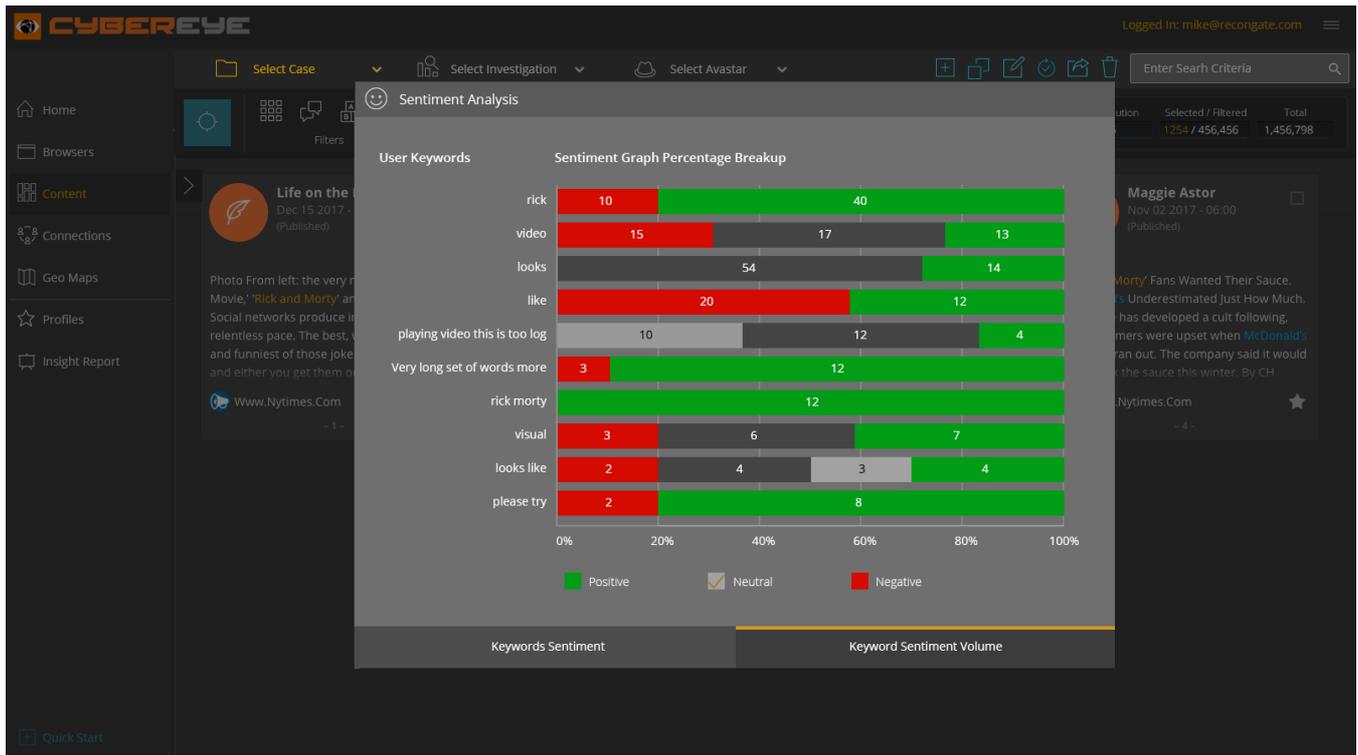




## Keyword Sentiment Volume

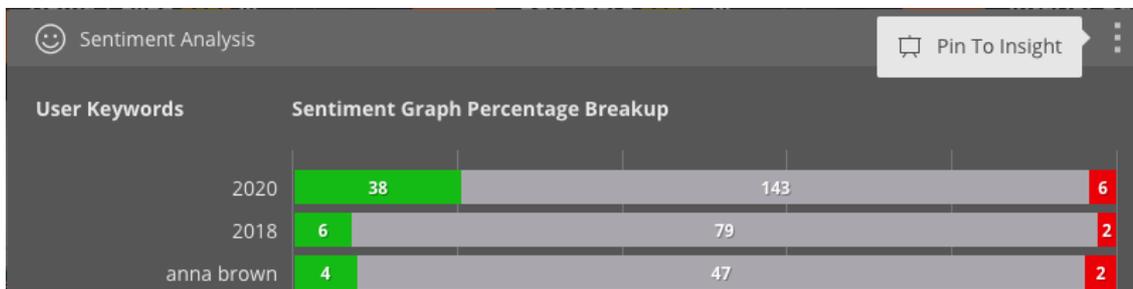
This view displays the keyword sentiment according to the number of times it appears in the investigation. The “User Keywords” column list the keyword according to volume, from top to bottom listing the top ten user keyword appearances and their exact number count for positive, neutral and negative.

The neutral keyword sentiment words can be exposed or hidden in the graph simply clicking on the checkbox in for the neutral keyword option in the legend at the bottom of the table.



## Pin to Insight Report - Keyword Sentiment Tabs

You can add the sentiment analysis keyword analysis word cloud and volume table by selecting the Pin to Insight option from the top right hand corner of the dialog header.







## Insight Report

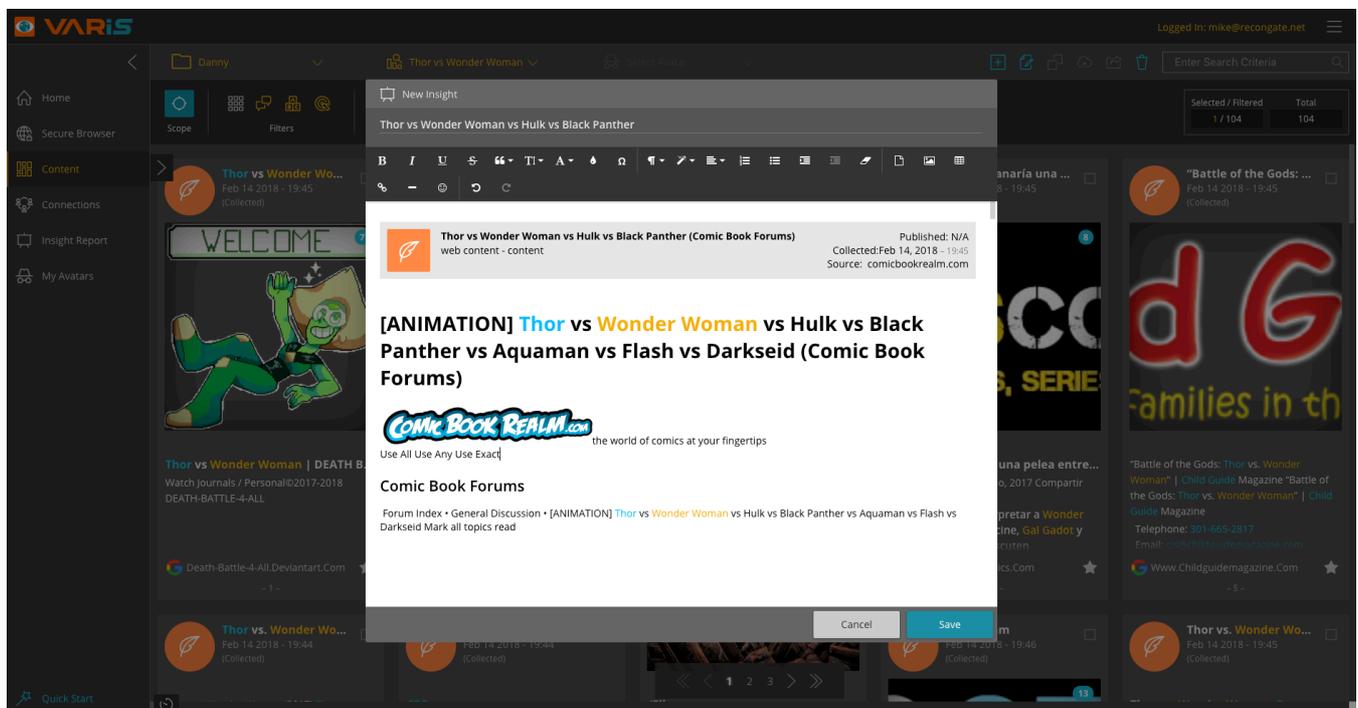
Varis now enable you to quickly and easily add content tiles and social objects to your insight report by simply checking the content tile or social object and then clicking on the **Create Insight Report Item** button. The insight item automatically opens in the HTML editor and you can then fully edit the insight item and then click on the **Save** button adds the new insight item to your investigations **Insight Report** item.

### Add Content to the Insight Report

When viewing content in an investigation, you can now checkbox select a content tile and then click on the **Create Insight Report Item** button. Selecting an item and then clicking on the **Create Insight Report** button opens the Insight HTML editor dialog.

### Editing the Text Content of an Insight Report Item

you can then edit and manipulate the insight content and then save it to your insight report.



## Available Pin to Insight Report Items

You can quickly and easily select a wide range of **Case and Investigation level objects** and items to the **Insight Report** view. Simply check or select the desired content tile or node and then click on the Pin to Insight button.

### The items that can be added to the insight report are as follows:

Content Tiles, Dark Net Content Tiles, Sentiment Analysis (Keywords Sentiment, Keywords Sentiment Volume), Social Network Personal Profile Nodes.



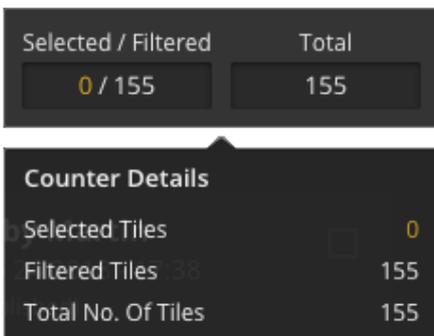
## Refreshing the Data



The data collection gathering process can take various amounts of time depending on the **Scrape Iteration Rate** and the collection task queue. As Varis enables you to deploy multiple **Scope Collection**, **Focused Search** and **Enrich Data** collection tasks, the results return to the system in a staggered manner. As newly collected data enters the system, the **Refresh Data** icon lights up in the toolbar ribbon, indicating to you to update you collected results.

## Understanding the Displayed Content via the Counter Control

Varis provides you with a detailed **Counter Control** on the top right of the toolbar ribbon that displays the total number of items collected in a specific investigation, the **Filtered** items you have chosen to appear in specific view, and highlights the selected items currently on your screen.



- **Selected** - highlights the user mouse **Selected Tiles** on the screen.
- **Filtered** - Shows the tiles that are available in the content view.
- **Total No. of Tiles** - displays the exact number of items collected before filtration.



### Note

A node is the term used to describe the visible objects on the screen and the connections refers to the lines that join the objects together.



## Free Text Search (FTS)

Varis provides you with the ability to search for specific text items by utilizing a free text search (**FTS**) mechanism that simply filters and highlights the results in bright yellow.

Located in the top right hand corner of the screen, use the FTS to search for specific words, according to the specific view that you are currently looking at.



### Tip

To visually isolate a node, enter the nodes name into the **FTS input field**, and then **delete** the text **without** clicking on the graph.

Enter Search Criteria



### Note

If you want to just highlight the contents of certain page, then click **CMD + F** (**CTRL + F** on a **PC**) and Varis will display all the page's contents **without** filtration.

This is the internal browser search mechanism, and does not work when popup dialogs are opened.

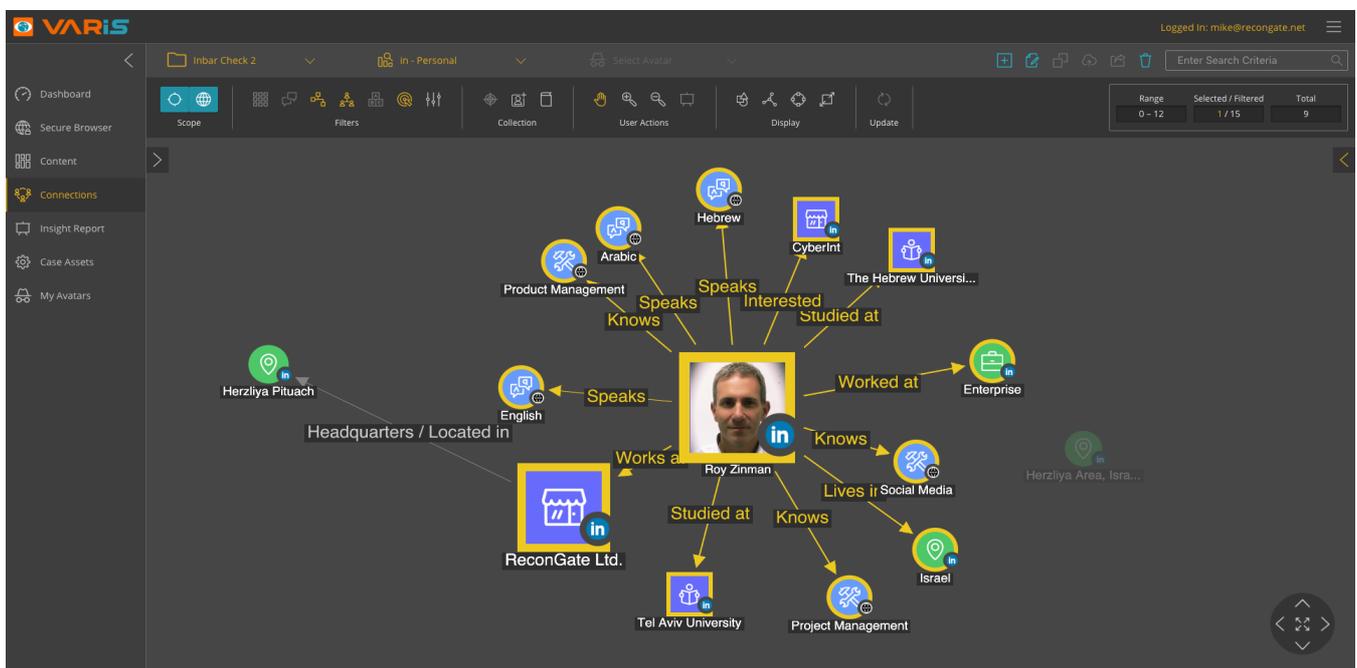


## Utilizing the Connections View - Built-in Graph Functionality

Varis implements a powerful topological graph view that displays all the collected data content in a highly visual and pictorial manner. Showing you the **Personal Social Network Profiles**, their subservient subpages such as groups, events, locations and channels, their **interactive textual content** that they have written, as well as all the **captured keyword** and **extracted category** information recognized in the text items.

### Powerful Topological Node and Connections Display

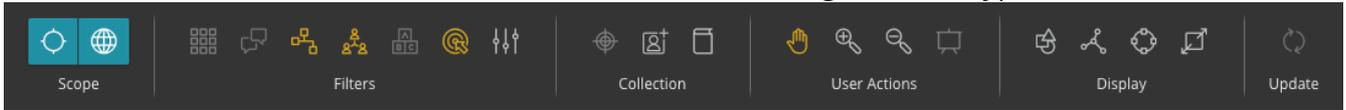
See the main person shown as a **Facebook Profile Node** being investigated and all the connected node types that have been recognized by the system. Varis provides several **topological visualization** options that extenuate various parameters that you may wish to visualize.





## Connection View Toolbar Controls

The **Connections view** toolbar controls are divided according to action type:



### Filters

The filter actions enable you to manipulate the represented data in the content view per a wide range of filter options.

### Collection

The data actions enable you to deploy scope data collections, focused search, enrich existing data, add new keywords to your investigation library.

### User Actions

Enable you to move/select nodes areas, zoom in/out and create Insight Report items.

### Display

Enables you to manipulate the graph layout, highlight and select connected nodes, expand and isolate a selection and resize the nodes per their traffic attributes.



## Connection View - Visualize Connections Between Nodes

Varis provides you with the ability to view a wide range of node types and the connections types between them. The node types are divided into three main types: **social objects** (social network profile types), **social attributes** (personality traits) and **semantic objects** and **web content**. They are displayed as icons and used throughout the Varis interface. They are color coded for quick visual reference.

### Connection View - Visualization Nodes and their Connectors

The **Connection View** displays all the collected data on a topological graph display and arranges it according to a specific item (node) such as a Personal Profile (Social Object) joined by connection lines to both additional social objects (such as friends), personality characteristics (social attributes), written content such as articles, posts, comments (content) and their inherent keyword categories.

### Social Object Node Types

There are six different types of Social Network profile variations, they are as follows:

	<b>Social Object Default Icon</b> - used a place holder if Varis cannot recognize the specific social object type.
	Personal Profiles - Social network personal online profiles (basic user account). This type of personal profile page is mandatory before being able to create all the following "Social Object" types.
	<b>Social Pages</b> - are for organizations, businesses, celebrities, and bands to broadcast information to fans in an official and public manner.
	<b>Social Groups</b> - are designed to foster group discussions around a particular topic or area of discussion.
	<b>Social Events</b> - Events can be created by anyone, and can be open to the general public or private. The creator can invite his friends, members of a group, or fans of a page.
	<b>Social Locations</b> - Place pages can be created to include a physical address, a category type where people can check into and write posts and comment from the location.
	<b>Social Channels</b> - A personal channel page is available to everyone who is a member of the same social network. The channel serves as a home page for video content



	<b>Social Forum/Blog</b> - A forum page is available to everyone.
	<b>Social News</b> - A new website page is available to everyone.

### Social Attributes Node Types

There are numerous type of social attributes and the list of attributes types is constantly being expanded. Currently there are the following types available in the system:

	<b>Social Attribute Default Icon</b> - used as a place holder if Varis cannot recognize the specific social attribute type.
	<b>Male</b> - represents a male attribute for a specific parent node.
	<b>Female</b> - represents a female attribute for a specific parent node.
	<b>Language</b> - represents a language attribute for a specific parent node.
	<b>Skill</b> - represents a skill attribute for a specific parent node.
	<b>Year</b> - represents a year attribute for a specific parent node.
	<b>Marker Pin</b> - represents location marker Pin on the "Geo Map" with insight information and observations.



## Semantic Objects Node Type

The largest library of icons belongs to the **Semantic Object Categories**; they represent all the built-in system keyword category types discovered and displayed by the **Varis Extraction Engine** (VEE).

	<b>Semantic Object Default Icon</b> - When Varis cannot recognize the specific semantic object type		<b>Organization</b> - represents an organization related node
	<b>Person</b> - represents a person related node		<b>Product</b> - represents a product related node
	<b>Topic</b> - represents a topic related node		<b>Event</b> - represents an event related node
	<b>Credit Card Number</b> - represents a credit card number related node		<b>Money</b> - represents a money related node
	<b>Country</b> - represents a country related node		<b>Institution</b> - represents an institution related node
	<b>Latitude/Longitude</b> - represents a lat/long related node		<b>Location</b> - represents a location related node
	<b>Workplace</b> - represents a workplace related node		<b>Distance</b> - represents a distance related node
	<b>Email/URL</b> - represents an Email/URL related node		<b>Nationality</b> - represents a nationality related node
	<b>Personal ID Number</b> - represents a personal ID number-related node		<b>Phone Number</b> - represents a phone number related node
	<b>Religion</b> - represents a religion related node		<b>Title</b> - represents a title related node



	<b>Activity</b> - represents a activity related node		<b>Date/Time</b> - represents a date and time related node
	<b>Indicative Text</b> - represents an indicative text related node		<b>Drugs</b> - represents a drug related node
	<b>Vehicle</b> - represents a vehicle related node		<b>Weapon</b> - represents a weapon related node
	<b>Comment</b> - represents a comment related node		<b>Content</b> - represents a content related node
	<b>Forum</b> - represents a forum related node		<b>Content PDF</b> - represents a PDF file node
	<b>Mentioned</b> - represents a mentioned related node		<b>Hashtag</b> - represents a hashtag related node
	<b>URL</b> - represents a URL related node		<b>Social Account</b> - represents a social account related node



## Data Source Types

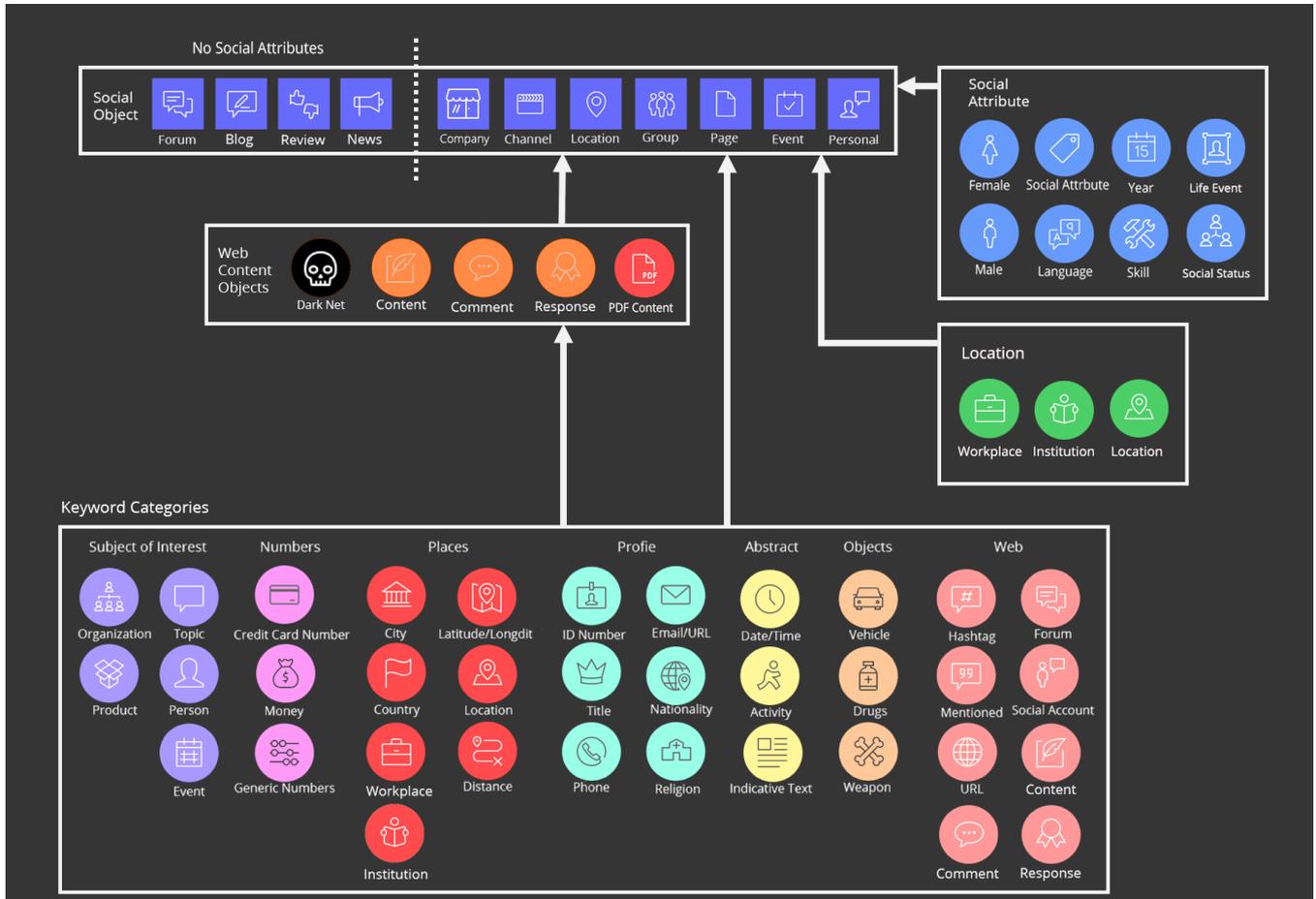
In addition to the topology icon types previously mentioned, there are also icon that indicate the source origin data types. Firstly, there are the well-known Social Networks and Search Engine icons as well as the generic data source icons as displayed in the Connection, Content and Geo Map views, they are as follows:

	<b>Blogs</b> – represents blog content sources		<b>Forums</b> - represents forum content sources
	<b>News</b> - represents news sites content sources		<b>Generic Website</b> - represents generic or general online content sources
	<b>Multiple Sources</b> - represents a combination of multiple content sources.		PDF – You can choose to collect PDF's from the Google scope options drop menu
	<b>Dark Net</b> – Content item collected from the Dark Net		



## Data Collection Object Hierarchy

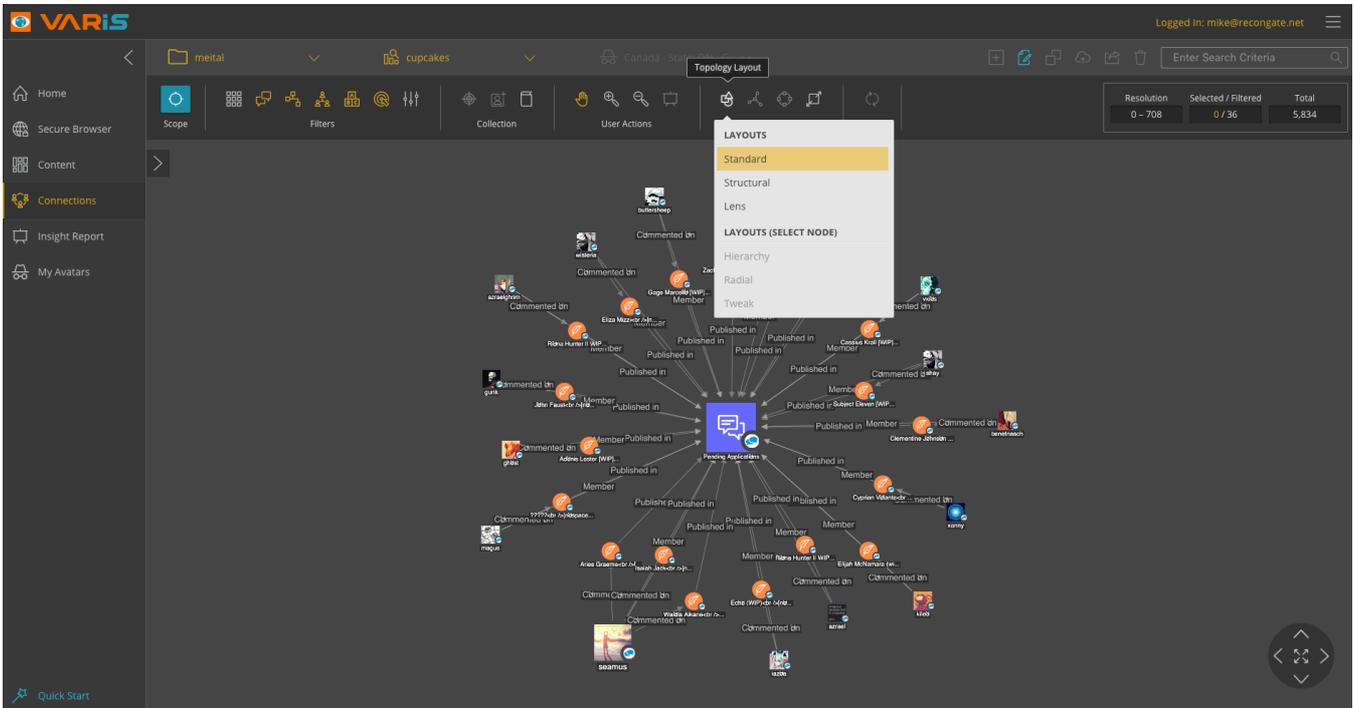
The following table illustrates the node object hierarchy and interconnectivity of the collected data visual elements as they appear in the **Connections** and **Content** view.





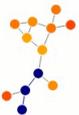
## Connections Topology Graph Layout View Options

Varis provides seven topology layouts that have been designed to ensure consistent, reliable, clear structures, designed specifically for viewing Data collections.

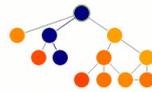


## Connections View Layout Options

These are the layout pre-set layouts for the Connections View Topology



**Standard Layout** – is a forced directed layout with connections of consistent length



**Hierarchical Layout** is a family tree of nodes with children beneath their parents



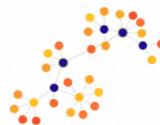
**Structural Layout** groups nodes with similar attributes in fans together



**Radial Layout** arranges the nodes around the original subject of the investigation



**Lens Layout** pushes highly connected nodes into the center and forces less connected nodes To the periphery



**Tweak Layout** is a force directed layout designed to show the networked nodes evolution



## Graph Navigation Keyboard Controls

When viewing a connection topology on the graph you can easily move around and zoom in and out on the graph using keyboard shortcuts.

To navigate on the graph topology, use the **Arrow** controls. **(Mac)** To zoom in **ALT -**, to zoom out **ALT+** and to fit to center **ALT 0**. **(PC)** To zoom in **CTRL -**, to zoom out **CTRL +** and to fit to center **CTRL 0**.

## Add Connection Social Object Personal Profile to the Insight Report

Click on a social object and then click on the **Create Insight Item** button. Then edit the social object content and save it to your insight report.

The screenshot displays the VARiS interface. On the left is a navigation sidebar with options like Dashboard, Secure Browser, Content, Connections, Insight Report, Case Assets, and My Avatars. The main area shows a graph of connections. A 'New Insight' window is open, displaying the profile of David Buonaventura. The profile includes a name, job title, location, and description. The window has a rich text editor at the top and 'Cancel' and 'Save' buttons at the bottom. In the top right corner, there is a search bar and a table with the following data:

Range	Selected / Filtered	Total
0 - 87	1 / 645	645



## Update and Edit the Insight Report Content

By clicking on a social network node or a social object the insight report HTML editor automatically opens and displays the copied node data into the editor. You can then add or edit the collected data with additional insight and information that you have ascertained from additional sources. Then, once you have finished editing the content click on the **Save** button to save it to your **Insight Report**.

New Insight

David Crackett

David Crackett  
Social Object - Personal (Profile)  
Source: [LinkedIn](#) Jun 5, 2018 COLLECTED

Name: David Crackett

Job Title: Chartered Accountant, Registered Auditor in Italy and Registered Auditor in UK at David Crackett Chartered Accountant

Current Workplace: **EDIT THE INPUT FIELD**

Education: —

Location: Milan

No. of Connections: —

Description: Chartered Accountant, Registered Auditor in Italy and Registered Auditor in UK at David Crackett Chartered Accountant

Skills: —

Work Experience: —

Cancel Save

### User Input and Editing the Selected Item

Once you have selected a Content tile or a Personal profile from the Connections graph, **you can edit the content of the Insight Item** adding relevant and additional information to the selected item.

In the image, you can see the current workplace input field can be edited where it says **EDIT THE INPUT FIELD**.

**All the fields can be edited in the Text editor** either before saving or by going to the Insight Report view and editing the tile content at any time.



## Seeing Extended Details

The Extended Details pane can be seen by clicking on the arrow at the top right edge of the display. The Extended Details pane enables you to view selected node item details while remaining in visual context of the interactive data collection topology. You can easily select various node objects and see their details in a click.



### Tip

Hold down the **SHIFT** key and then click on multiple nodes in series on the connections graph, then view the results of the multiple selected nodes in the Extended Details.

The screenshot shows the 'Extended Details' pane with a list of items. Each item includes a small profile picture, a name, a date (Jan 30, 2018), a type (e.g., Social Object - Personal (Profile)), and a status (COLLECTED). The last item is a comment with a text preview and a 'See more' link. A yellow button with the number '60' is at the bottom right of the pane.

Item Type	Name	Date	Status
Social Object - Personal (Profile)	Sally Quentonthompson	Jan 30, 2018	COLLECTED
Social Object - Personal (Profile)	Tracey Montgomerie	Jan 30, 2018	COLLECTED
Social Object - Personal (Profile)	Darren Hayward	Jan 30, 2018	COLLECTED
Social Object - Personal (Profile)	Lauren Christensen	Jan 30, 2018	COLLECTED
Social Object - Personal (Profile)	Simon Peters	Jan 30, 2018	COLLECTED
Social Object - Personal (Profile)	Wendy Lowe	Jan 30, 2018	COLLECTED
Social Object - Personal (Profile)	Monica Buteanu	Jan 30, 2018	COLLECTED
Web Content - Comment	I Don't Think You Have To Actua...	Jan 30, 2018	COLLECTED

## Extended Details

Click on a single or multiple nodes and connections and view their inherent details and specific attributes in the Extended Details pane.

**Expand** an item and view the selected node and their connection lines details.

View a content node and see the **highlighted keywords** and **extracted categories** in color in the expanded item view.

You can **Pin** the **Extended Details Pane** so that it remains open. You can also expand/collapse all items in the list to quickly scan its contents.



## Tracking Changes to Your Investigation in the Action Log

Varis data collection tasks and filter configurations changes are stored in the **Action Log** that can be found by clicking on the arrow tab on the center left edge of the screen. You can configure filters in a specific investigation and **delete** them if the results are undesired, thus **reverting to the original data** collection display configuration.

### Action Log Functionality

The **Action Log** provides you with a time stamped user action history list. The following actions are recorded in the Action Log.

#### Collection Tasks (No Delete)

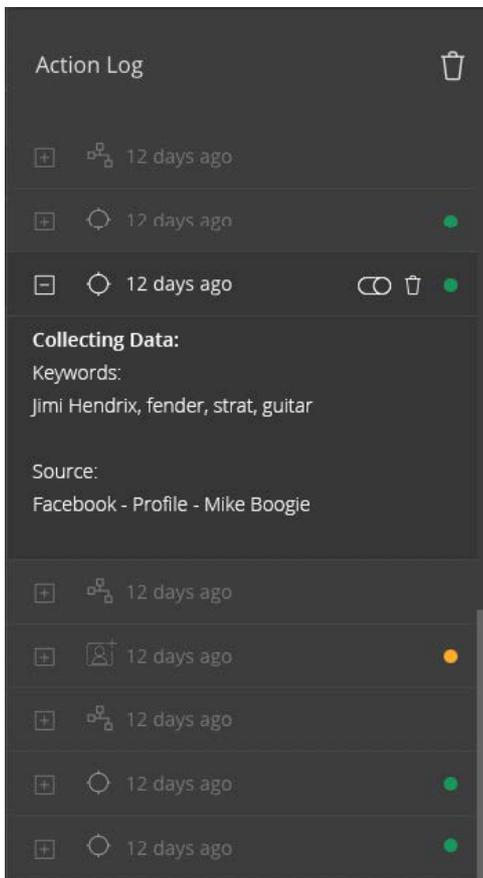
Manual Browser and Collection. Scope Configuration and deployment. Data Enrichment.

#### All Filter Settings (Can Delete)

Varis lets you delete all filter configuration settings. So, you can revert your data display back to a previous setting.

#### Delete

Scope, Browser and Enrich Data logs cannot be deleted from the investigation. All filter configurations can be deleted from the investigation. Deleting filter settings re-sets the filter to the default state.



### LED Status Indicators

The LED status indicators provides you with the up-to date status for all your collection tasks. The following legend shows the different types of LED indicators in Varis.

#### Legend

- - Pending
- - Delayed
- - In Queue
- - In Progress
- - Complete
- - Failed



## Utilizing the Timeline Player

Once you start a collection task you can continue to add new collections of data to your investigation over time, or perform periodic collections. All the data collection, filter configuration, and data manipulation is recorded into Varis.

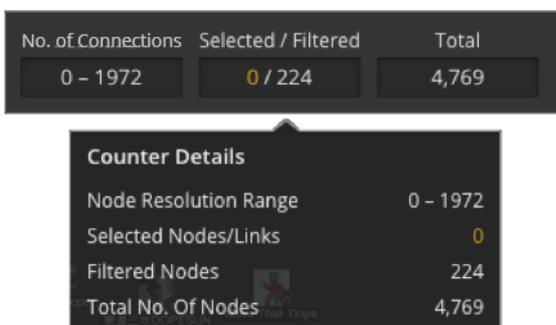
### Collection Playback

You can then play back the historical evolution of your investigation gaining additional insight by monitoring the visual patterns that become visible when viewing the changes in the data over time. The timeline feature can be accessed by clicking on the clock mini tab located at the bottom left side of the screen.



## Understanding the Displayed Connections via the Counter Control

Varis provides you with a detailed **Counter Control** on the top right of the toolbar ribbon that displays the total number of items collected in a specific investigation, the **Filtered** items you have chosen to appear in specific view, and highlights the selected items currently on your screen.



- **Resolution** - shows the relationship rate of removal from the central node of an investigation.
- **Selected** - highlights the user mouse selected nodes and connection links on the screen.
- **Filtered** - Shows the nodes and connection link items that are available in the investigation topology view.
- **Total** - displays the exact number of items collected before filtration.



### Note

A node is the term used to describe the visible objects on the screen and the connections refers to the lines that join the objects together



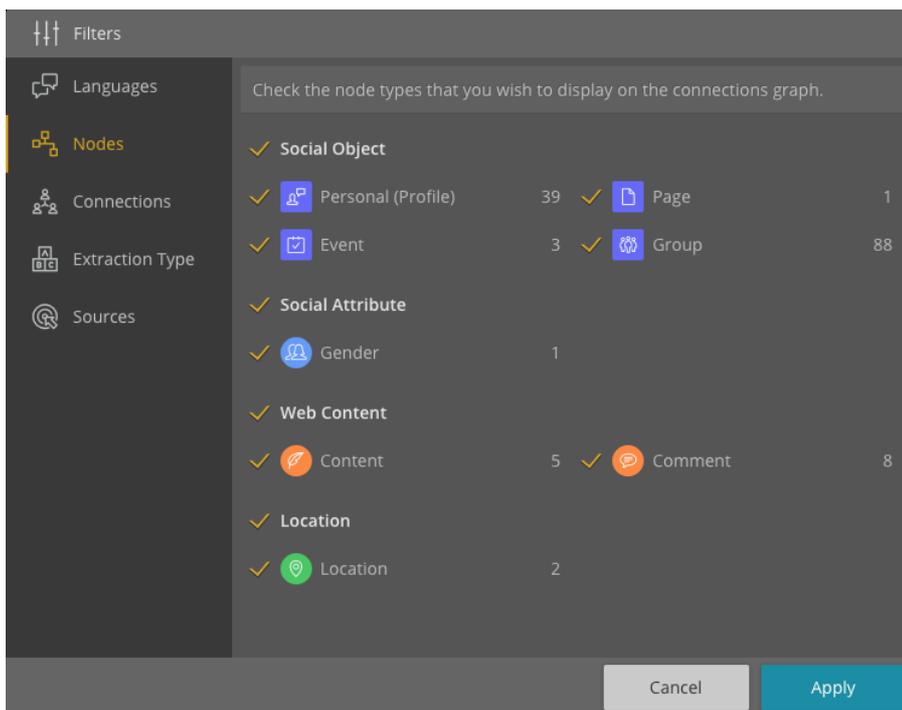
## Utilizing the Connections View Filters

The **collection view** provides you with an in-depth view of all the collected data in the form of a topological graph detailing all the node types and the different connection types that join them. By implementing the filters while using deductive data analysis logic, you can systematically reduce the static noise data and clean up your data collection, focusing on the specific target point of your investigation.

You can delete all your filter configurations from the **Action Log**, thus enabling you to revert to previous topology views if your filtering goes astray. The Connection view has some additional filter setting dialogs that provide you with addition filtration layers and aspects. They are described here:

### Node Filter

The **filter by node** dialog provides you with the ability to filter according to the specific node types. This is useful when you are trying to focus your investigation according to a specific node type.



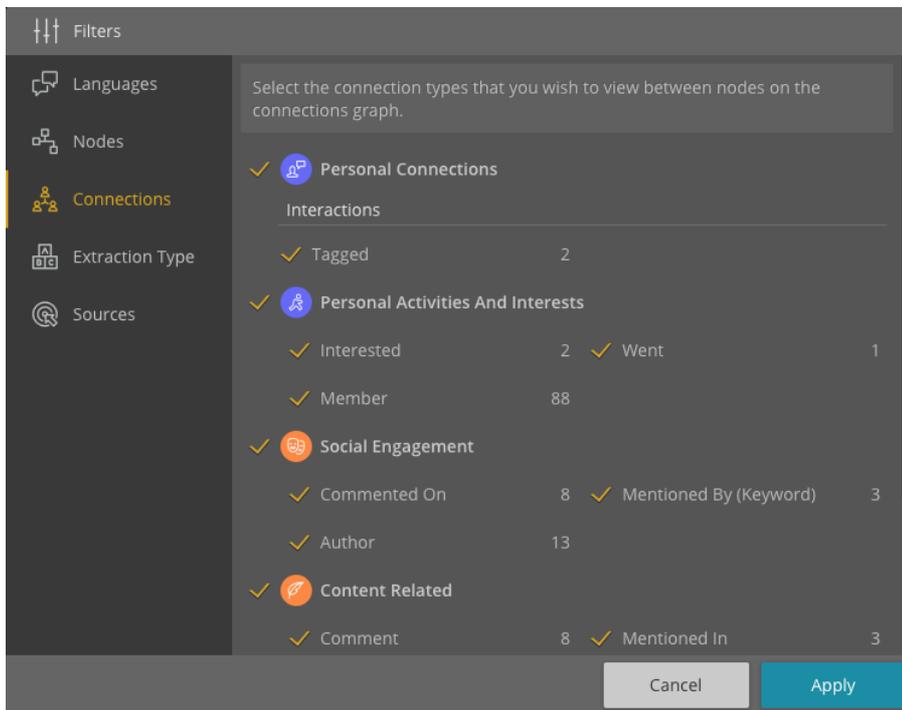


## Connections Filter

The **filter by connections** dialog enables you to select the connection types between nodes that you wish to display on the topology graph in the connections view. The connections refer to the connection lines between nodes.

### Social Network - Connection Types

Connection type options are the interactive mechanisms provided by each social network to their members, such as making **friends**, or **following** other people within the same social network as well as posts, comments and articles. These connection types are often mimicked by competing social network providers as they become standardized throughout the social Network industry. The connection types fall into several category types such as the following:



#### Personal Connections

Friends, Followers, Following, Family, Mentioned and Tagged.

#### Personal Activities

Interested In, Attending, Going/Went, Liked Page, Checked In/Out and Member.

#### Social Engagement

Liked, Commented On, Reaction, Share, Mentioned By, Mentioned In and Author.

#### Content

Mentioned In, Proximity and Comment.

#### Social Attributes

Knows, Studied At, Education Place, Works At, Workplace, Year of Birth, Speaks, Hometown, Current City, Moved In, Moved Here, Resident, Address and Gender.

#### Other Connection Types

This is a dynamic and ever growing list that currently includes:

Hashtag, Profile, Structured, Place, Mentioned and NA.



## Number of Connections Filter

The **Number of Connections Filter** dialog enables you to view the amount of connection edges connected to the nodes on the topology graph.

### Setting the Minimum and Maximum Connection Values

Select the minimum value (number) of connection edges (lines) that you wish to see connected to your nodes. Set the minimum value to 0 to view all nodes in your investigation (including orphan nodes). Set the minimum value to 1 to view nodes that have at least 1 node connected to them. Set the minimum value to 2 to view nodes with at least 2 nodes connected to them

Number of Connections Filter

Select the minimum value (number) of connection edges (lines) that you wish to see connected to your nodes. Set the minimum value to 0 to view all nodes in your investigation (including orphan nodes). Set the minimum value to 1 to view nodes that have at least 1 node connected to them. Set the minimum value to 2 to view .nodes with at least 2 nodes connected to them

Minimum Value  to Maximum Value  of 209

Cancel Apply



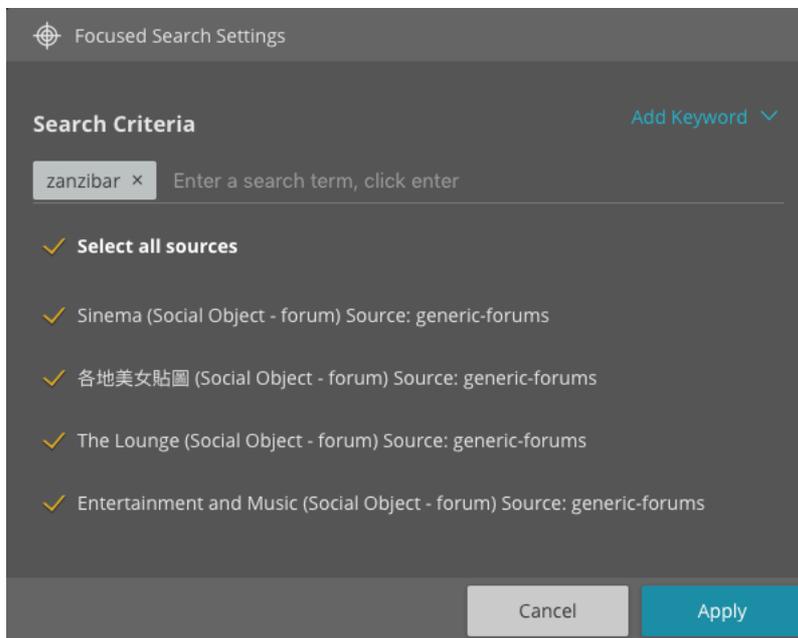
## Focused Search

Once you have successfully performed a **Scope Data Collection** task from a **Forum**, you can select specific Forum nodes in the **Connection View**, or check tiles in the **Content View**, add new keywords focused specifically on the collected data and then gather additional forum content from the specific forum by using the **Focused Search**.

To perform a focused search for a specific entity, perform the following steps:

1. click on the specific node/s item or tile/s
2. Now click on the **Focused Search**  button.
3. Verify via the items you wish to enrich in the confirmation dialog.
4. Click the **Apply** button.

 Wait until the data is collected (this may take a couple of minutes).



## Focused Search Collection Tasks

When performing a focused search collection task for a forum post Varis collects **up to 100 results**.

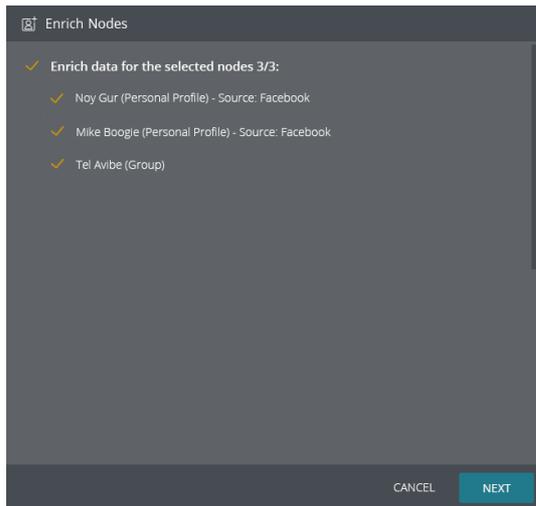


## Enriching Data

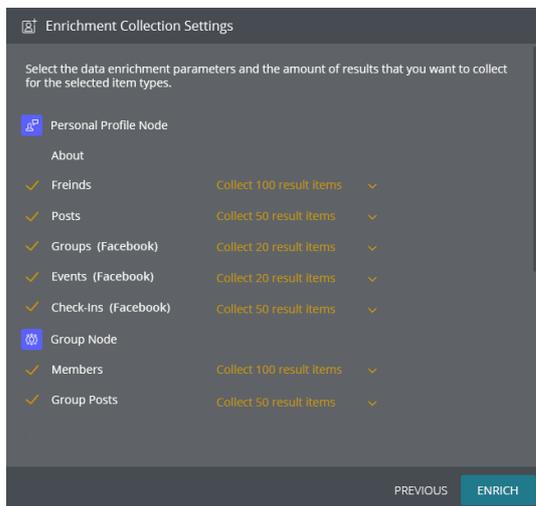
Varis enables you to implement a collection task by either **manually collecting data**, by performing a **Scope collection task** and then gathering additional content by selecting nodes in the **Connection View** or by checking tiles in the **Content View**.

To enrich data of a specific entity, perform the following steps:

1. Click on the specific node/s item or tile/s.
2. Now click on the **Enrich Data** button.



3. Click on the **Next** button
4. Verify the amount of **Collection Results** that you wish to collect per data source type.



5. Verify via the items you wish to enrich in the confirmation dialog.
  6. Click the **Enrich** button.
-  Wait until the data is collected (this may take a couple of minutes).



## Manually Collecting Data Via the Browser Extension

When manually collecting data via the **Varis Browser Extension** Varis collects all the HTML content of a target site and expands all the links contained within the HTML and collects content from the second level of the HTML.

## Enriching Nodes and Tiles Data Collection

When performing an enrich data collection task from selected nodes and tiles Varis collects **up to 200 results** for content items, events, posts, members, group and events. Up to **500 friends or likers** for friends, followers, pages liked, posts and personal profile likers.

## Forum Collection Tasks

When performing an enrich collection task for a selected forum thread the **enrich task** collects entire discussion thread for specific discussion.



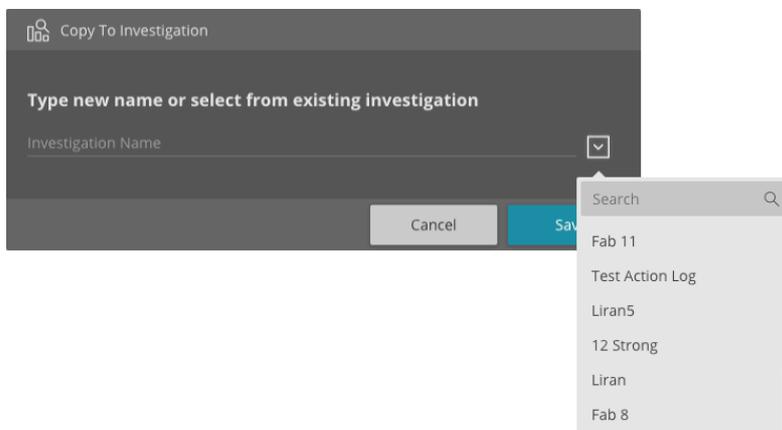
## Saving a Collection Bunch to a New Investigation

When you start an investigation, and commence the data collection process, you may find that after a while you have created an investigation with massive amounts of collected data.

To maintain order within the framework of your case Varis enables you to select segments of data in the various views and either save the data collection as a new investigation or add it to an existing investigation.

To copy selected items to a new or existing investigation perform the following step:

1. Select the relevant tiles or nodes from either the **Content** view or the **Connections** view.
2. Click on the **Copy to Investigation**  button.
3. Choose to enter a new investigation name or select an investigation from the drop menu of existing investigations.



4. Click on the **Save** button.



## Case Assets

All the case assets that you have created for performing and maintaining your investigations can be managed via the **Casa Assets** View. There you can add, delete, update and modify all of the assets for your case.

The screenshot shows the VARiS Case Assets interface. The left sidebar contains navigation options: Dashboard, Secure Browser, Content, Connections, Insight Report, Case Assets (highlighted), and My Avatars. The main area displays a table of investigations under the 'Investigations' tab. The table has columns for No., Name, Created By, Current User, Last Update, and Insight Report Created On. There are 19 rows of data.

No.	Name	Created By	Current User	Last Update	Insight Report Created On
1	Check 2	user@admin.com		Today at 3:48 PM	
2	Check for mor	user@admin.com		Today at 12:12 PM	
3	car	user@admin.com		Yesterday at 7:04 PM	
4	Inbar12314215	user@admin.com		Yesterday at 6:57 PM	
5	Baidu Pdf Check	user@admin.com		Today at 12:44 AM	
6	Danny 1	danny@recongate.net		Yesterday at 2:13 PM	
7	Liran6	liran@recongate.net		Yesterday at 2:13 PM	
8	Check for graphql req	user@admin.com		Last Sunday at 6:19 PM	
9	News	user@admin.com	mike@recongate.net	Yesterday at 11:06 PM	Yesterday at 11:06 PM
10	In-Personal	user@admin.com		Last Sunday at 6:19 PM	
11	In - Company 2	user@admin.com		Last Sunday at 6:19 PM	
12	In - School	user@admin.com		Last Sunday at 6:19 PM	
13	In - Company	user@admin.com		Today at 10:20 AM	Today at 10:20 AM
14	In - Personal	user@admin.com		Last Sunday at 6:19 PM	
15	Groups search Facebook	user@admin.com		Last Sunday at 6:19 PM	
16	Group - Activity for LIRAN	user@admin.com		Last Sunday at 6:19 PM	
17	Facebook 140	user@admin.com		Today at 12:39 PM	05/24/2018
18	Dark web	user@admin.com		Last Monday at 6:09 PM	
19	Inbar	user@admin.com		Last Sunday at 6:19 PM	

## Investigations

You can create new investigations, rename them, duplicate them and delete them. You can also view if and when an Insight report was created for a specific investigation.

## Keywords

You can add, update, change and delete keywords from your case in this view.

## Keyword Blacklist

You can add, update, change and delete keyword blacklist from your case in this view.

## Notes

You can create, edit, delete all of your case level notes and observations from this view.



## My Avatars

Managing Your Avatar Profiles is performed via the **My Avatars** view. You can create a **Varis Avatar** here by creating a **Social Network Personal Profile** instance and then link it to an Active Facebook or Weibo Profile account.

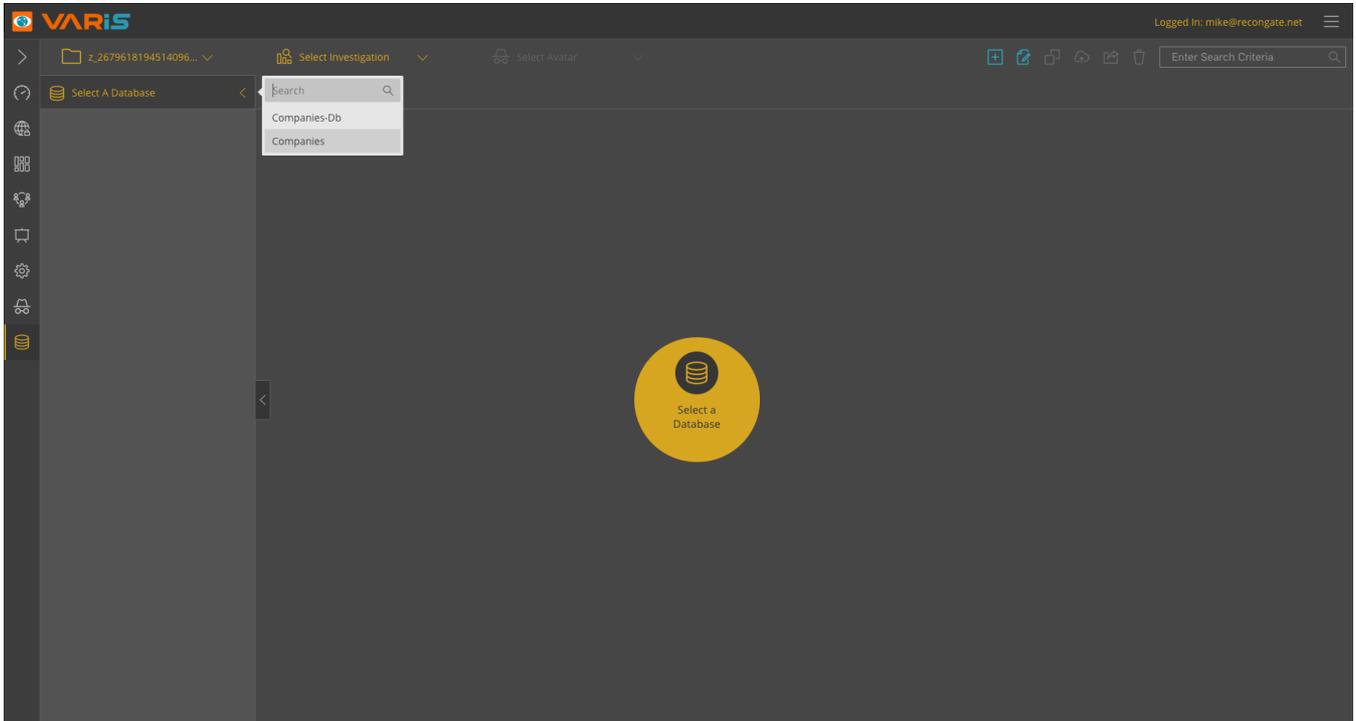
You can track the status of your Avatars as well as update and delete them. Deleting the Avatar profile does not delete the actual social network account, it just removes it from the application.

No.	Status	Name	Languages	Proxy	Gender	Date Of Birth	Current Address	Email Address
1	Ready	UNITED STATES - State: W...	English	UNITED STATES - State: WA - City: Seattle - Port: 25035	N/A	N/A	N/A	N/A
2	Ready	Afghanistan - State: KAB ...	Chinese (Simplified)	Afghanistan - State: KAB - City: Kabul - Port: 25021	N/A	N/A	N/A	N/A
3	Ready	Bangladesh - State: C - Cit...	Chinese (Simplified)	Bangladesh - State: C - City: Dhaka - Port: 25032	N/A	N/A	N/A	N/A
4	Ready	USA - city: Washington D...	Chinese (Simplified)	USA - city: Washington DC - Ip: 35.102.18.3	N/A	N/A	N/A	N/A
5	Error	Belinda Wiley	Chinese (Simplified), English	us - State: NY - City: New York - Port: 25050	Female	N/A	N/A	hazelku@mail.ru
6	Syncing		English	USA - city: Washington DC - Ip: 35.102.18.0		N/A	N/A	pricellor@gmail.com
7	Ready	Canada - State: ON - City: ...	Chinese (Simplified)	Canada - State: ON - City: Toronto - Port: 25025	N/A	N/A	N/A	N/A
8	Ready	New York - 25002	Chinese (Simplified)	New York - 25002	N/A	N/A	N/A	N/A
9	Ready	Afghanistan - State: KAB ...	Chinese (Simplified)	Afghanistan - State: KAB - City: Kabul - Port: 25022	N/A	N/A	N/A	N/A
10	Ready	New York - 25005	Chinese (Simplified)	New York - 25005	N/A	N/A	N/A	N/A
11	Ready	Afghanistan - State: KAB ...	Chinese (Simplified)	Afghanistan - State: KAB - City: Kabul - Port: 25023	N/A	N/A	N/A	N/A
12	Ready	Afghanistan - State: KAB ...	Chinese (Simplified)	Afghanistan - State: KAB - City: Kabul - Port: 25021	N/A	N/A	N/A	N/A



## The Database View

The customer databases are pre-loaded into Varis and can be accessed via the **Database view**. You can select a database from the **Select a Database** drop menu at the top of the tree panel.





## Using the Free Text Search (FTS)

Once you have selected a **Database** you can now enter your **search term** or **User Keyword** in the **FTS (Free Text Search)** input field and Click the ENTER button to view the search results.

The screenshot shows the VARIS application interface. On the left, there is a sidebar with a 'Companies' menu. The main area displays a table of search results. The table has columns for various fields: NCE, ANCHDATE, DOM, RECCAP, REGCAPCUR, ENTTYPE, CREDITCODE, and ABUITEM. The search results are filtered to show companies with '股份' (Share) in their name. The table is paginated, showing results 1 through 20.

NCE	ANCHDATE	DOM	RECCAP	REGCAPCUR	ENTTYPE	CREDITCODE	ABUITEM
		重庆市万州区高笋塘85号		人民币元	股份有限公司(上市)	9150010171160773T	发电; 供电; 工程勘察、设...
		黑龙江省哈尔滨市道里区发...		人民币元	股份有限公司(上市、国有...	912301001269708116	实业投资; 股权投资; 投资...
		深圳市罗湖区宝安南路201...		人民币元	股份有限公司(上市)	91440300618831041G	土地开发、房产销售及租赁...
		北京市西城区民丰胡同31号		人民币元	股份有限公司(上市、国有...	91110000100028633H	
		云南省昆明市高新技术开发...		人民币元	股份有限公司(台港澳与境...	9153010062260401X	
		杭州市拱墅区方家埭路189号		人民币元	其他股份有限公司(上市)	91330100710985166J	食品加工机械、包装机械、...
		浙江省平湖市经济开发区新...		人民币元	股份有限公司(上市、自然...	91330000146644116H	滴眼剂、大容量注射剂、口...
		贺州市平安西路1 2 号		人民币元	股份有限公司(上市、国有...	91451100711427393C	发电、供电、电力投资开发...
		浙江省瑞安市草鞋铺工业园...		人民币元	股份有限公司(上市、自然...	913300007176139983	氨纶产品的加工制造、销售...
		杭州市庆春东路38号		人民币元	其他股份有限公司(上市)	91330000719577660B	房地产开发、房屋建筑、商...
		浙江省湖州练市长城大浦东...		人民币元	其他股份有限公司(上市)	9133050066615054X7	特种电磁线、绕组线的生产...
		三门县海游街道下坑村		人民币元	其他股份有限公司(上市)	9133100014812902XL	橡胶制品、塑料制品(不含...
		哈尔滨高新技术产业开发区...		人民币元	其他股份有限公司(上市)	9123019975036754Q	投资及投资管理; 企业策划...
		通化市前兴路28号		人民币元	其他股份有限公司(上市)	91220000702312420U	
		桂林市西城经济开发区秧塘...		人民币元	其他股份有限公司(上市)	914503001991037270	从事汽车零部件和部件系统...
		甘肃省兰州市兰州新区黄河...		人民币元	股份有限公司(上市、国有...	916200007202575254	炼油、化工、核电所需的装...
		新疆乌鲁木齐市高新区北京...		人民币元	其他股份有限公司(上市)	91650000132278661Y	投资管理, 实业投资, 股权...
		广州市天河区珠江西路5号...		人民币元	股份有限公司	914401011904817725	企业自有资金投资; 企业管...
		深圳市宝安区沙井街道钱一...		人民币元	股份有限公司(中外合资、...	91440300760482233Q	生产经营连接线、连接器、...



## Searching by Column

By clicking on a **specific column**, you are able to perform an **FTS search** for the specific column. The results will then populate the table according to the order of the specifically selected column.

The screenshot shows the VARIS application interface. On the left is a navigation menu with options like Dashboard, Secure Browser, Content, Connections, Insight Report, Case Assets, My Avatars, and Database. The main area displays a table under the 'Investigations' tab. The table has columns: No., Name, Position, Age, Sex, Education, Stock Count, Last Update, and Introduction. The data rows are numbered 1 through 19, with names like 'Persons Name 1' through 'Persons Name 16'. The 'Position' column includes roles like 'Senior Executive', 'Board of Directors', and 'Director/Senior Exec'. The 'Stock Count' column shows values like 19,752, 20,258, 0, and 1,972. The 'Last Update' column shows dates like '22.04.2018-12:25'. The 'Introduction' column contains the text 'Personal introduction text info'.

No.	Name	Position	Age	Sex	Education	Stock Count	Last Update	Introduction
1	Persons Name 1	Senior Executive	62	Male	Shanghai university		22.04.2018-12:25	Personal introduction text info
2	Persons Name 2	Senior Executive	58	Male	Shanghai university		22.04.2018-12:25	Personal introduction text info
3	Persons Name 3	Senior Executive	46	Female	Beijing university		22.04.2018-12:25	Personal introduction text info
4	Persons Name 4	Senior Executive	47	Female	Beijing university		22.04.2018-12:25	Personal introduction text info
5	Persons Name 5	Senior Executive	34	Male	Hong Kong university		22.04.2018-12:25	Personal introduction text info
6	Persons Name 6	Senior Executive	51	Female	Beijing university		22.04.2018-12:25	Personal introduction text info
7	Persons Name 7	Senior Executive	39	Female	Beijing university		22.04.2018-12:25	Personal introduction text info
8	Persons Name 8	Senior Executive	45	Male	Hong Kong university		22.04.2018-12:25	Personal introduction text info
9	Persons Name 9	Board of Directors	62			19,752	22.04.2018-12:25	
10	Persons Name 10	Board of Directors	58			20,258	22.04.2018-12:25	
11	Persons Name 11	Board of Directors	46			0	22.04.2018-12:25	
12	Persons Name 12	Board of Directors	47			0	22.04.2018-12:25	
13	Persons Name 13	Board of Directors	34			1,972	22.04.2018-12:25	
14	Persons Name 14	Director/Senior Exec	51			16,752	22.04.2018-12:25	
15	Persons Name 15	Board/Senior Exec	39			12,345	22.04.2018-12:25	
16	Persons Name 16	Board/Senior Exec	45			0	22.04.2018-12:25	
17								
18								
19								

## Re-Ordering the Tables Columns

You can re-arrange the table layout and structure. To change the columns location on the table, you can drag them and drop them in the order that is most convenient to you.



## Showing and Hiding Columns

Right Click on the Table column header and checkbox the required view to show or hide columns.

The screenshot shows the VARIS interface with a table of investigation results. The table has columns for No., Status, Name, Languages, and Proxy. A context menu is open over the 'Proxy' column header, showing a list of columns to show or hide: Status, Name, Languages, Proxy, and Gender. The 'Proxy' column is currently selected in the menu.

No.	Status	Name	Languages	Proxy
1	Ready		English	
2	Ready		Chinese (Simplified)	
3	Ready		Chinese (Simplified), English	
4	Syncing		Chinese (Simplified)	US - San Diego : 25086
5	Error		Chinese (Simplified)	US - Boston : 25013
6	Ready		Chinese (Simplified)	US - New York : 25005
7	Error		Chinese (Simplified)	US - New York : 25002

## Changing the Width of Columns

You can change the width of columns by hovering your mouse on the edge of a column, once you see the two-sided arrow appear, you can click and drag to change the size of the column.



## Viewing Nodes on the Geo Map

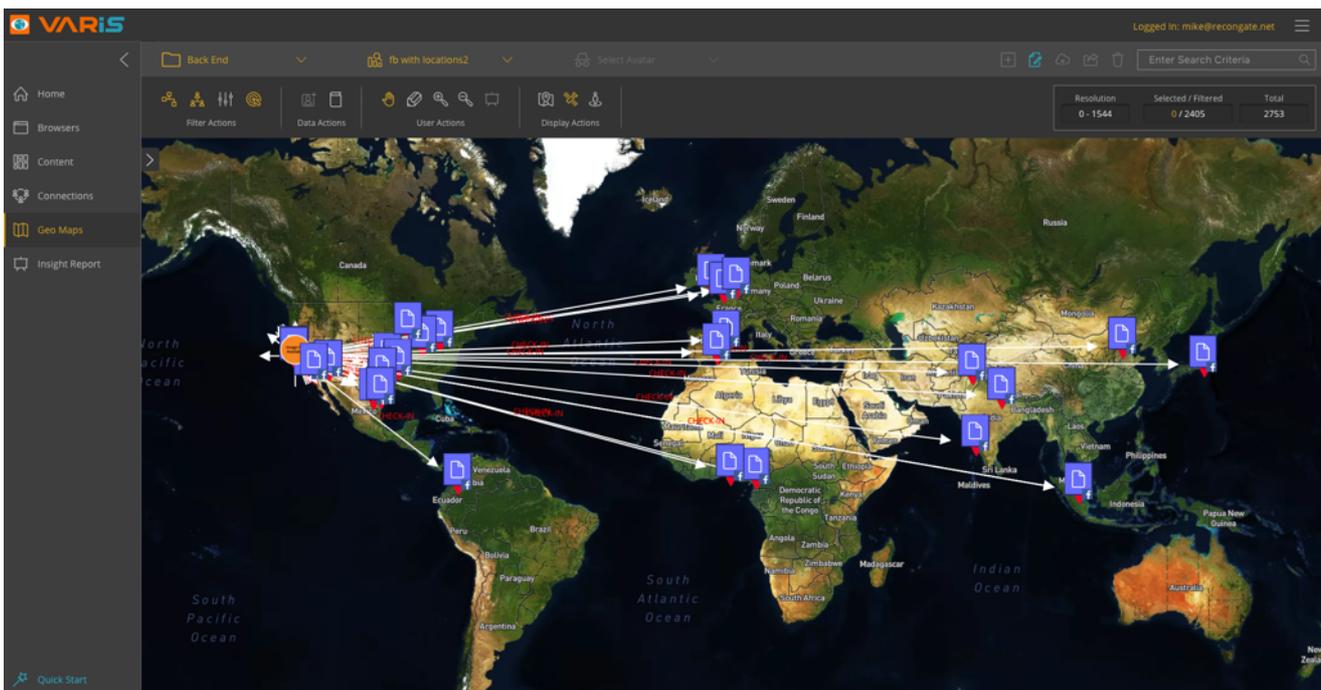
Varis provides you with the ability to view Personal Social Network Profiles **Location check-ins** and **Geo tagged content posts** according to their Geo tag locations on the **Geo Map** view.

The map view to fully utilize the latest vector rendering technology to speed up the response time and improve the overall quality of the map display and render as well as extend the tools and map view types.

To view **Geo Tag** content on the **Geo Map** view, perform the following:

1. Select an investigation that contains geo tag map locations
2. Open to the **Filter by Node** dialog and select all the relevant **nodes** that you wish to view on the **Geo Map** view
3. Open to the **Filter by Connection** dialog and select all the relevant **connection** types that you wish to view on the **Geo Map** view

Posts and personal profiles and content with **geo tags** together with the extracted keyword categories are displayed on the geo map.



The geo map view enables you to track the geo map location check-ins of both people movement as well as location check-ins.



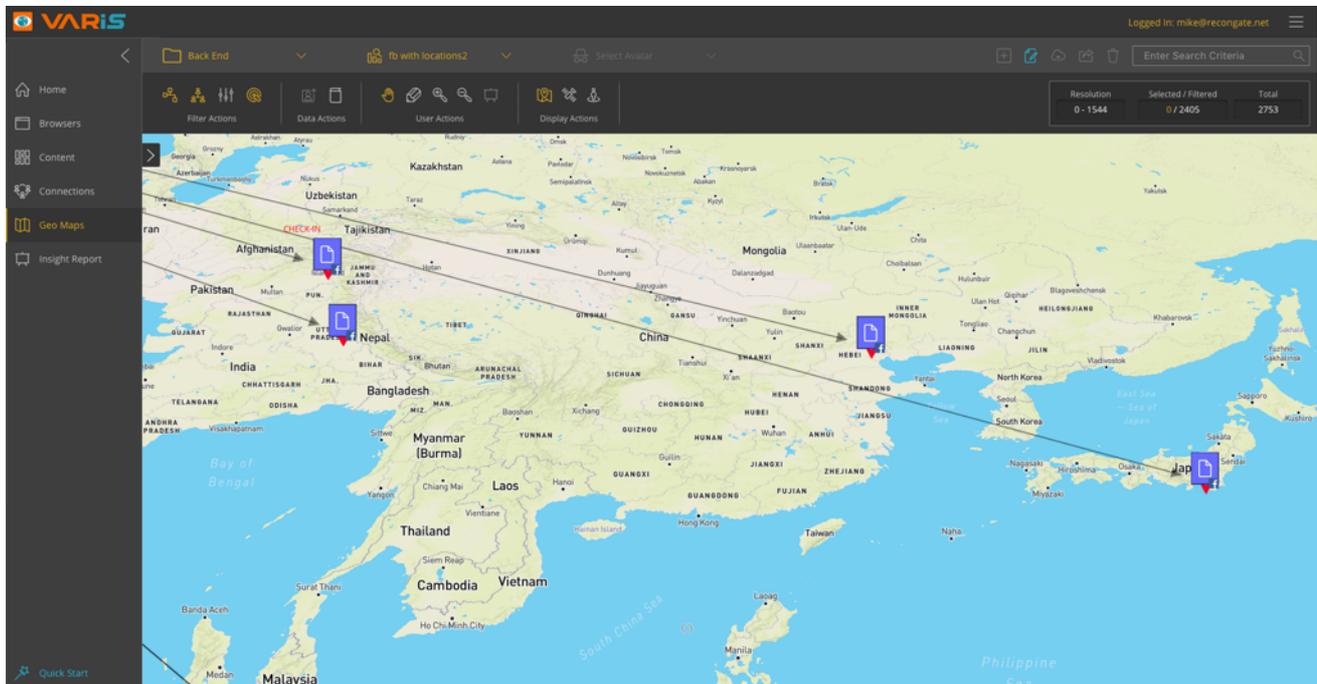
### Important Note

Personal profiles, content posts and article content items that do not contain geo tag information (provided by the author) will not be visible on the **GEO Map** View.



## Additional Isometric Map View

In addition to the traditional topological map view Varis also provides you with an isometric map view. By holding down the Shift key + Right Click mouse button you can manipulate the map isometric angle.



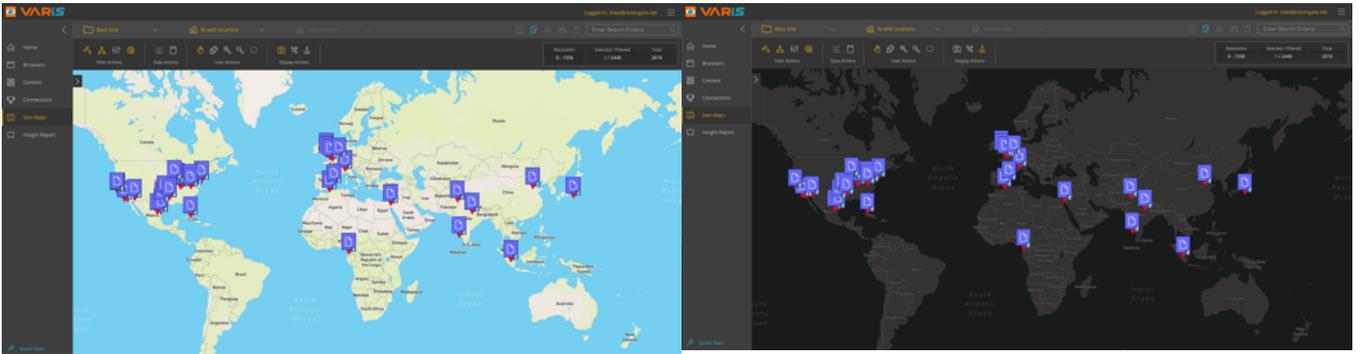
## Filtering Results on the Geo Map

You can utilize the filtering mechanism on the Geo Map in the same manner as on the connections view. You can filter by **Node**, **Connection** and **Resolution**. You can also enrich data and add keywords to the keyword library.



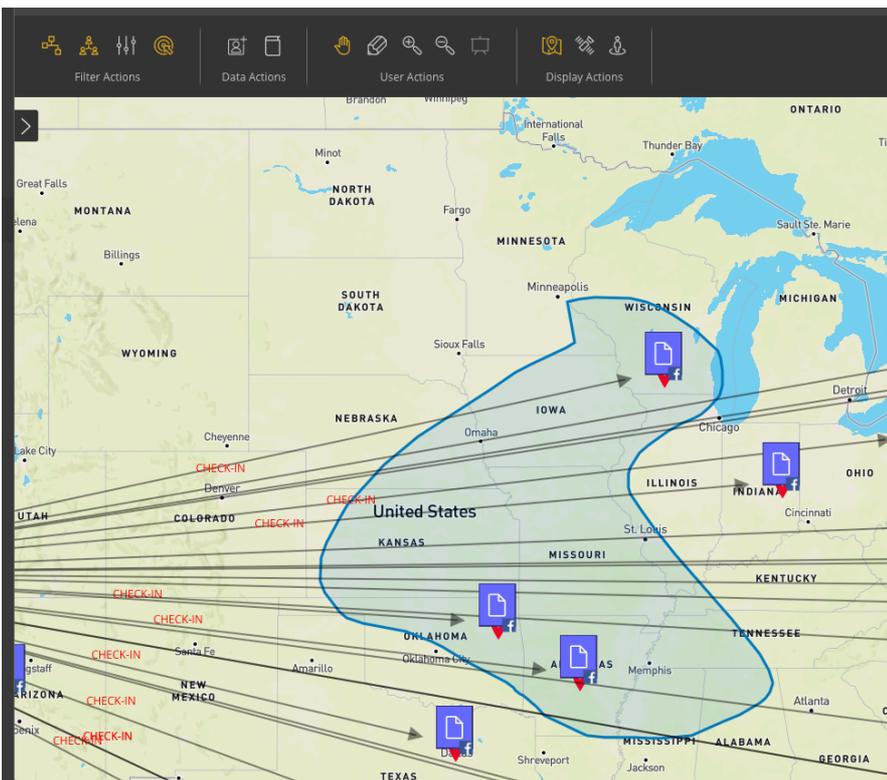
## Multiple Geo Map View Options

Varis enables you to view the geo tag location content on both map views and satellite views.



## Freehand Selection Tool

You can now select a specific region or area on a map using the freehand selection tool. To clear a selection just right click on the selected area and select the “Clear Selection” option from the menu.



### Freehand Selection Tool

The freehand pencil tool allows you to draw around complex selections and select specific nodes for further investigation.

Right Click and select the Clear Selection to remove and reset the selection tool.



## Adding Map Marker Notes to the Map

In addition to viewing the geo tag content you can also add map markers pins to the map and add relevant notes and information to the geo map view for a specific investigation.

To add a marker pin to the **Geo Map** perform the following steps:

1. Either **right click** on a specific map location and select add marker from the menu or click on the **marker icon** in the tool ribbon
2. Then go to required marker pin location on the map and click.
3. Now add a marker pin title and description in the popup dialog and click **create marker pin**
4. You can now **view** the **marker pin** description by either **hovering** over the tool tip or selecting it and **viewing its content in the extended details** pane.
5. To **Edit** the **marker pin**, right click on the marker pin and select **edit marker** from the right click menu, then perform your update or edit and click the save button.
6. To **Delete** the **marker pin**, right click on it and select the delete option.

Edit Marker

Marker Title  
Marker Pin Title Placeholder

Description  
This is where the user can add a comment to a specific Geo Location and detail a description and or observation.

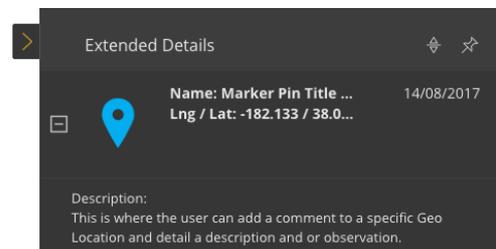
Select Marker Color  
blue

Marker Longitude/Latitude : -182.133, 38.011

Close Update

## Geo Map Marker Extended Details Tool Tip

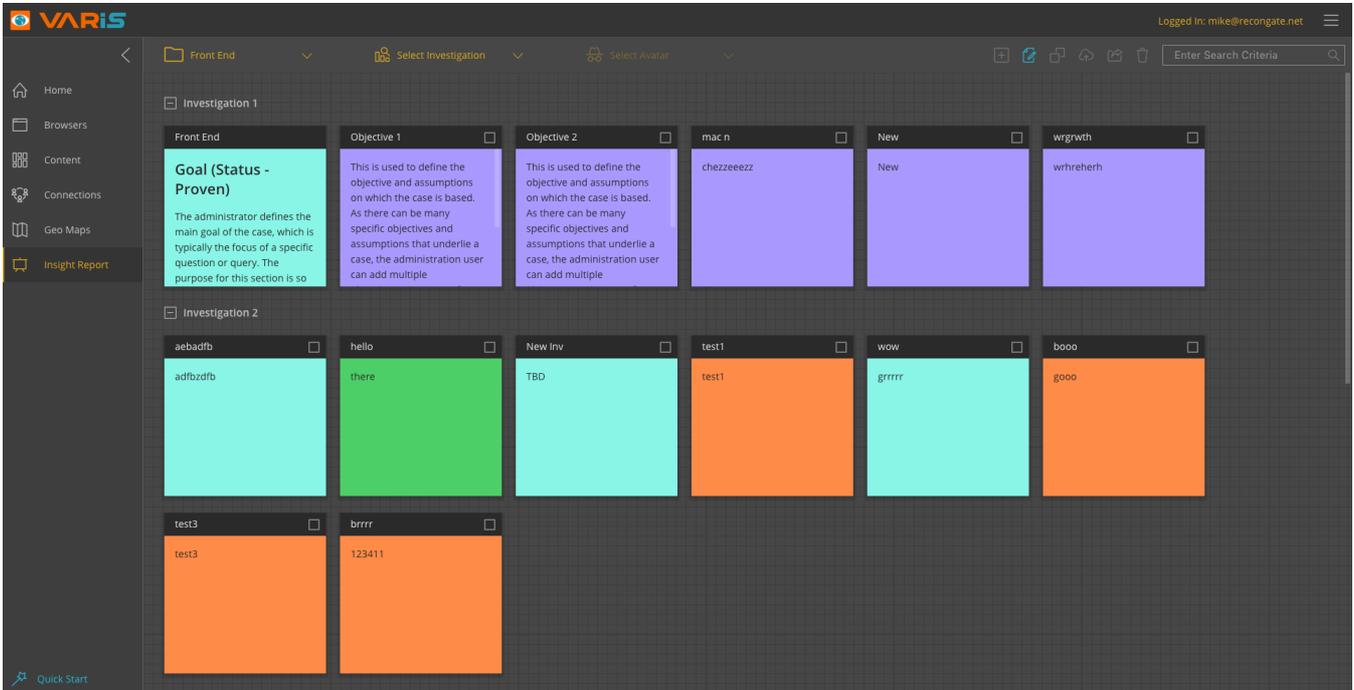
Clicking on the marker pin tip displays the description in the Extended Details in the following format.





## Creating Your First Case Level Insight Report

Varis enables you to create a detailed **case report** of your findings within the content of the Varis application itself. This is especially important when you must relay the insight and the understanding of a specific case and its child investigations, to someone without access to Varis.



### Building an Insight Report Correctly

When the Administrator creates a **new case**, they are directed to provide entries for three mandatory input fields a **case name**, author the **goal** of the case itself and provide at least one **objective** on which the case and its **children investigations** are based.

### Color Coded Tiles Per Investigation

Your insights are divided according to investigations, a different color for each investigation. Simply, drag and drop your insight tiles from one investigation to another. The tiles retain their original color so that you can differentiate between investigations and their origin.



#### Important Note

The **case goal**, **objectives** and **Assumptions** input fields are **mandatory** as they represent the basic framework of the cases and its investigations. They also provide the starting point of the **Case Insight Report** written after a case and its child investigations.



## Working According to the Goal

The case hypothesis is a set of propositions set forth as an explanation for an occurrence or a phenomenon. Its main goal is to define and guide the subsequent investigations or provide a highly probable set of established facts.

Use this section to define the scope of your case and outline the framework for all the child investigations that the analyst will create.

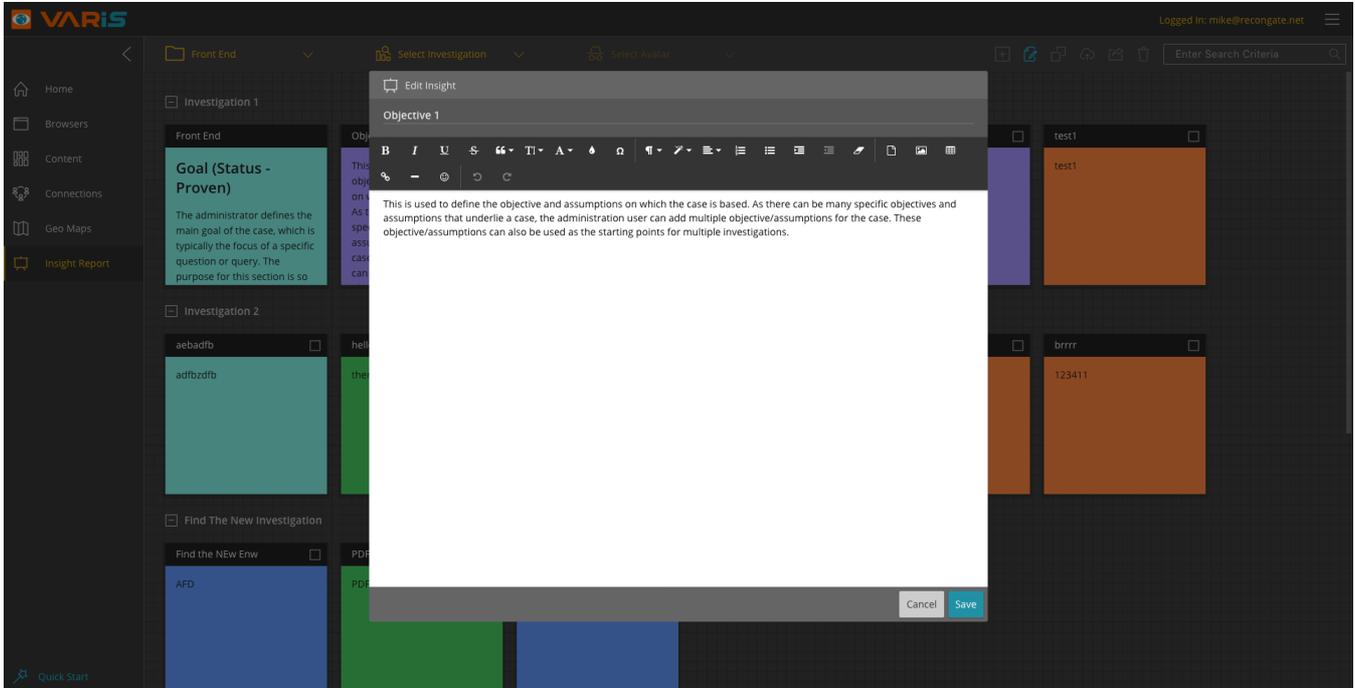
## Authoring the Case Objectives

The case assumption includes **important facts** or information deemed rudimentary to the case. The assumption also includes information regarded as the basis on which the case is based. There can be multiple assumptions per case and they can be conflicting in nature, as each assumption can be used as a pretext for a separate investigation.



## Creating Your First Insight Item

Varis enable you to create and add to existing insight items throughout the application interface. Simply use the **operating system screen capture tool** to take pictures of the investigations and then simply add them to **Insight Tiles** using **the fully featured HTML editor tool**.



## Editing Your Content

Content tiles that have been **Pinned To Insight** can be edited in the **Insight Report View** by simply opening the tile and editing them.



### Tip

While editing your **Insight item** or **tile** You will see a **visual divider** line that indicates that you have reached the end of an A4 page. As you add more text content the scrollable height of the tile will grow and expose more page divider lines.



## The WYSIWYG HTML Editor

Varis provides you with a powerful HTML text editor that enables you to write, style and design the layout of your insight reports items and notes. The available functionality is as follows:

### Text Manipulation



Bold, Italic, Underline, Strike, Quote, Font Size, Font Family, Colors, Symbols

### Formatting



Paragraph Format, Text Align, Numbered List, Bullet List, Increase Indent, Decrease Indent

### Inserting



Picture, Table, Link, Emoticons, Special Characters, Horizontal Line

### Insert Picture



Replace picture, Align, Image Caption, Remove, Insert Link, Display, Style, Change Size, Advanced Edit

### Insert Table

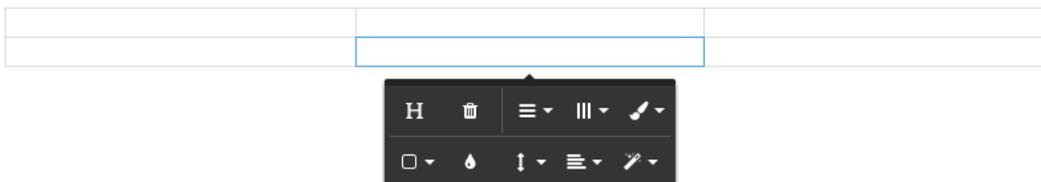


Table Header, Remove Table, Row, Column, Table Style, Cell, Cell Background Color, Vertical Align, Horizontal Align, Cell Style

### Manipulation



Un-Do, Re-Do



## Edit Your First Insight Item

The insight tiles are designed to provide you with a simple way of **tracking, ordering** and **editing** your observations that you collect throughout the investigation process. You can continually edit and update the Insight tile content and each tile is designed to represent a single PDF page in the final report.

## Arranging Your Report Content

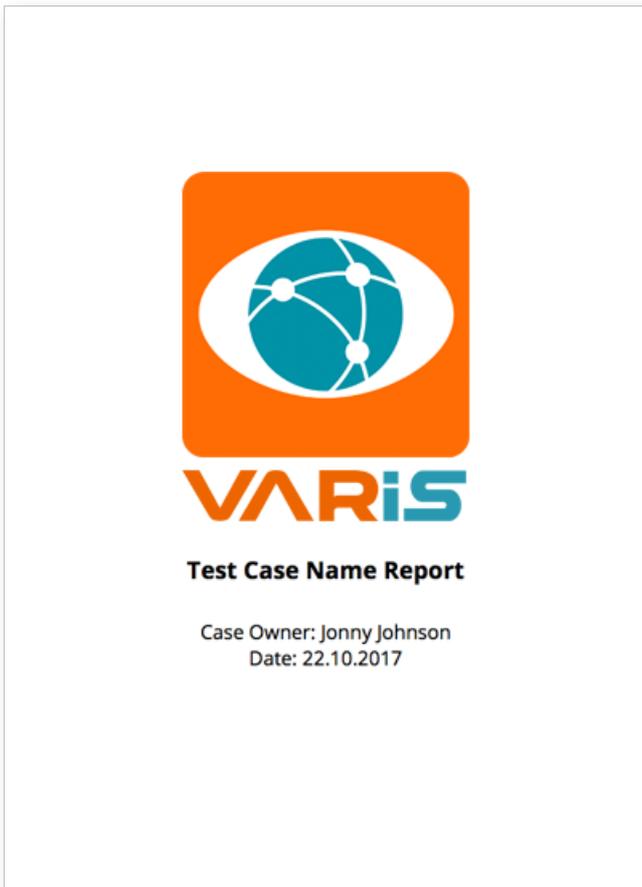
Once you have written all the insights and feedback you have gained throughout the investigation process, you can then select which tiles within the total of tiles you have created to track and describe the findings of your investigation. Simply **drag and drop** the tiles to re-order them in preparation of generating your **PDF Insight Report**.

## Selecting Items for Publication

Varis enables you to **checkbox** select individual tiles that will be included in the **output PDF Insight Report**. The additional tiles can be left as a reference for additional information pertaining to the investigation, but excluded from the official report.

## Creating Your First PDF or DocX Report

Simply drag and drop the tiles to the required order, checkbox the specific tiles and click on the **Export** as **PDF** or **DocX**  button located in the top right hand corner of the Insight Report View.



## Administration Section

The administration section of Varis is accessible by users that have **administrator privileges**. The administrator is responsible for creating the cases, defining the case hypothesis and writing the assumptions. The Admin is also responsible for assigning analysts to cases and managing all the investigations, source/user collection tasks, deep cover avatars and rangers.

### Administrator and User Privileges

The Varis application can be configured using two levels of user privileges. **The Admin level** provides the user with access to all areas of the application interface and has jurisdiction to add cases, assign users to cases and investigation and enter the admin section of Varis.

By setting the users privileges to a **regular user** enable the analyst to entry only cases and investigation that they have been assigned to and are not provided access to the admin section of the Varis application.

### Sorting and Filtering Table Results

Varis enables you to sort table content by clicking on the column headers and filter column content by **right clicking** on the column header.



## Management Navigation View

The management view provides a central location to create and configure cases, define users and user privileges as well as create and configure investigations.

### Cases Tab

The **cases tab** displays the case status, case name, its creation date and its author. The statuses provide the administrator with the following capabilities:

No.	Status	Case Name	Assignees	Creation Date	Created By
1	Active	Alon Test2		Last Thursday At 11:35 AM	
2	Active	Alon Test 1		Last Thursday At 11:35 AM	
3	Active	Mike		Last Thursday At 10:03 AM	
4	Active	Case		Last Tuesday At 4:13 PM	
5	Active	Inbar Case - Checking New Edges :)		Last Tuesday At 11:42 AM	
6	Active	Front End		Last Monday At 11:49 AM	
7	Active	Back End		Last Monday At 7:55 AM	
8	Active	Chen		01/28/2018	
9	Active	Collection		01/28/2018	
10	Active	Uri's Case		01/28/2018	
11	Active	Tomer		01/28/2018	

### Cases Status Legend

- **Active** – The case and its investigations are currently being worked on.
- **Suspended** – The case is read only and new investigations cannot be added to the case
- **Unfounded** – The hypothesis and assumptions of the case have been disproven.
- **Closed** – The case and its investigations have been concluded, the case is longer active.



## Users Tab

The administrator can add or edit Varis users in the system from the users tab.

The screenshot shows the VARiS web interface with the 'Users' tab selected. The interface includes a sidebar with 'Management', 'Collection', and 'Resources' sections. The main content area displays a table of users. The table has columns for 'No.', 'Username', 'Email Address', and 'User Type'. There are 11 users listed, all with 'Admin' as their user type. The interface also shows a search bar at the top right and a 'Logged In: mike@recongate.net' indicator.

No.	Username	Email Address	User Type
1	ofer@recongate.net	ofer@recongate.com	Admin
2	user@admin.com	user@admin.com	Admin
3	uri@recongate.net	admin@recongate.net	Admin
4	tomere@recongate.net		Admin
5	tal@recongate.com	tal@recongate.com	Admin
6	ofer@recongate.com	ofer@recongate.com	Admin
7	mike@recongate.net	danny@recongate.net	Admin
8	michael@recongate.net	michael@recongate.net	Admin
9	michael1@recongate.net	michael1@recongate.net	Admin
10	meital@recongate.net	meital@recongate.net	Admin
11	meital1@recongate.net	meital1@recongate.net	Admin



## Create New User Dialog

The administrator can assign a **new** or **existing user** to a specific case or cases. This is where the **user credentials** are entered such as **username (email address)**, **password**, and **picture upload** are performed.

The screenshot shows a 'Create User' dialog box with the following fields and options:

- Username**: Email address. Below the input field is the instruction: 'Enter a valid email address (lowercase letters)'. The text 'Email address' is also visible above the input field.
- Password**: Password.
- Email Address**: Email Address.
- Upload Profile Image**: Upload Profile Image (.png .jpg .jpeg .gif). There is a small blue icon to the right of the input field.
- User Type**: Admin (with a dropdown arrow).

At the bottom right of the dialog, there are two buttons: 'CANCEL' and 'CREATE'.



## Investigation Management Tab

The administrator manages all the investigations that are available for a specific case. The investigation name can be edited, as well as setting the status of individual investigations within the case.

### Investigation Status Legend

- **Active** – The investigation is currently being worked on and can be edited.
- **Suspended** – The investigation is read only and **cannot** be added to or edited.
- **Closed** – The investigation is no longer active and is not visible in the Varis main window. This is an administrative function enabling the administrator the ability to closed an investigation, and if required re-open the investigation (If the reason for closing the investigation has been refuted or disproved).

### Forced Investigation Release

The administrator can override the analyst while engaged in an investigation. You select a specific investigation and then click on the **force release** button. The analyst immediately removed from the investigation.

The screenshot shows the VARIS Investigation Management interface. The top navigation bar includes the VARIS logo, a search bar with the text "Enter Search Criteria", and a user profile icon with the text "Logged In: mike@recongate.net". The main content area is a table with the following columns: No., Status, Investigation, Created By, Current User, Last Update, and Case. The table contains 13 rows of data, all with a status of "Active".

No.	Status	Investigation	Created By	Current User	Last Update	Case
1	Active	BUG? - Place or Location - fro product	user@admin.com		Last Thursday at 6:31 PM	Inbar Case - Checking new Edges :)
2	Active	#####	user@admin.com		Last Thursday at 5:36 PM	Inbar Case - Checking new Edges :)
3	Active	Weibo - Search - School - 音	user@admin.com		Last Thursday at 5:48 PM	Inbar Case - Checking new Edges :)
4	Active	Weibo - Search - Profiles - 音	user@admin.com		Last Thursday at 6:17 PM	Inbar Case - Checking new Edges :)
5	Active	Weibo - Search - Posts - 音	user@admin.com		Last Thursday at 6:19 PM	Inbar Case - Checking new Edges :)
6	Active	Weibo - Search - Pages - 音	user@admin.com		Last Thursday at 6:20 PM	Inbar Case - Checking new Edges :)
7	Active	Weibo - Search - Companies - 音	user@admin.com		Last Thursday at 6:23 PM	Inbar Case - Checking new Edges :)
8	Active	Weibo - Search - Profiles - 人道主义	user@admin.com		Last Thursday at 6:25 PM	Inbar Case - Checking new Edges :)
9	Active	Weibo - Search - Posts - 人道主义	user@admin.com		Last Thursday at 6:26 PM	Inbar Case - Checking new Edges :)
10	Active	sa4	dor@recongate.net		Last Thursday at 5:22 PM	Dor
11	Active	Weibo - Search - Pages - 人道主义	user@admin.com		Last Thursday at 5:07 PM	Inbar Case - Checking new Edges :)
12	Active	Weibo - Search - Companies - 人道主义	user@admin.com		Last Thursday at 5:05 PM	Inbar Case - Checking new Edges :)
13	Active	Weibo - Posts - id 2686281105	user@admin.com		Last Thursday at 4:55 PM	Inbar Case - Checking new Edges :)



## Collection Navigation View

All the Varis collection tasks are located in this section of the administration. This section is designed to provide the administrator with a single pane of glass for viewing and monitoring the status of source and user collection tasks that have been configured within the Varis system.

## Source Collection Tasks Tab

The source collection tasks refer to data collection according to **Social Network** and **Search Engine** Sources. The **Source Collection Tasks** status indicators represent whether the specific collection task is functioning correctly.

## Investigation Status Legend

- **OK** – The source collection task is currently running without incident.
- **Problem** – The source collection task is not running and requires attention.
- **Failure** - The source collection task has failed and needs to be re-started or re-configured.

No.	Source	Scrape Task Queue	No. Web Crawlers	No. Of Rangers	No. Frozen Rangers	No. Active Scrapers	Avg. Task Time
1	F - Sogou Interactive QA Community	0	1	0	0	0	0sec
2	F - Wed114 Wedding Services	0	1	0	0	0	0sec
3	F - DISCUZ Foreign Trade Forum	0	1	0	0	0	0sec
4	B - Opencorporates Blogs	0	1	0	0	0	0sec
5	F - Chinese Freight And Cargo Forum	0	1	0	0	0	0sec
6	F - Sina Home	0	1	0	0	0	0sec
7	Bbs.Cupl.Edu	0	1	0	0	0	0sec
8	F - 19 Lou Home	0	1	0	0	0	0sec
9	Forums	0	1	0	0	0	0sec
10	B - Hexun Blog	0	1	0	0	0	0sec
11	F - Douban	0	1	0	0	0	0sec
12	F - Discuss Forum	0	1	0	0	0	0sec
13	Google	0	1	0	0	0	0sec
14	Weibo	0	0	0	0	0	0sec
15	F - Baidu Knows	0	1	0	0	0	0sec
16	N - Hexun News	0	1	0	0	0	0sec
17	F - 52 Shipping Forum	0	1	0	0	0	0sec
18	N - Xueqiu News	0	1	0	0	0	0sec



## User Collection Tasks Tab

The user collection tasks refer to any task involving collecting or enriching data. Currently, Varis provides the basic information pertaining to individual collection tasks detailing the specific case and investigation as well as the type of collection task and its scrape interval.

### User Collection Status Legend

- **In Progress** – The source collection task is currently running without incident.
- **Completed** – The source collection task has finished.
- **Failure** - The source collection task has failed and needs to be re-started or re-configured.
- **Pending** – The task is queued into the system as has not yet commenced.

No.	Status	ID Number	Case	User	Investigation	Source	Type	Scrape Interval	Start Time	End Time
1	Completed	Fd4adbdc-E6d1-4f6e-Bfa5-C7ba17142827	Uri's Case	uri@recongate.net	Inv-01	Google	Search	Once	2018-02-04 08:23:18	2018-02-04 08:25:38
2	Completed	258d9e82-5f85-41da-Baa7-09a1475c5402	Uri's Case	uri@recongate.net	Inv-01	Google	Search	Once	2018-02-04 08:23:13	2018-02-04 08:24:35
3	Completed	C95d88b1-Fcdc-4247-81b6-F29a1d4e4fe5	Inbar Case - Checking New Edges :)	user@admin.com	Facebook - Itamar Moatty	Facebook	Likes_profile	Once	2018-02-01 15:49:25	2018-02-01 15:50:12
4	Completed	5d098739-Df41-48fd-944a-52a37b378eef	Inbar Case - Checking New Edges :)	user@admin.com	Facebook - Itamar Moatty	Facebook	Checkins_profile	Once	2018-02-01 15:47:36	2018-02-01 15:48:25
5	Completed	F358edbe-585e-4548-A189-60d17d652ff	Inbar Case - Checking New Edges :)	user@admin.com	Facebook - Itamar Moatty	Facebook	Events_profile	Once	2018-02-01 15:46:35	2018-02-01 15:47:03
6	Completed	D7677e98-002f-4f02-832d-5762b7a3980d	Inbar Case - Checking New Edges :)	user@admin.com	Facebook - Itamar Moatty	Facebook	Groups_profile	Once	2018-02-01 15:44:34	2018-02-01 15:45:47
7	Completed	Dabdd613-1e77-41de-873d-Fbda0e35c9b8	Inbar Case - Checking New Edges :)	user@admin.com	Facebook - Itamar Moatty	Facebook	Posts	Once	2018-02-01 15:43:34	2018-02-01 15:48:37
8	Completed	4023be7f-6408-458e-A5ca-1cc681399c69	Inbar Case - Checking New Edges :)	user@admin.com	Facebook - Itamar Moatty	Facebook	Friends	Once	2018-02-01 15:43:34	2018-02-01 15:47:06
9	Completed	Aeadad4cb-E41a-49ab-9b6e-F6b3d51438f1	Inbar Case - Checking New Edges :)	user@admin.com	Facebook - Itamar Moatty	Facebook	About	Once	2018-02-01 15:43:34	2018-02-01 15:44:02
10	Completed	D9fd9381-88ef-4f7e-8845-445be068a6f3	Dor		Sa4	Douban.Com	Scope	Once	2018-02-01 15:22:51	2018-02-01 15:22:53
11	Completed	064b4806-c957-46e9-B18c-7cab029a7741	Dor		Sa3	Discuss.Com.Hk	Scope	Once	2018-02-01 13:15:11	2018-02-01 13:15:13
12	Completed	6d0318ba-7ba7-4f3b-Af87-5f950cb8831	Dor		Sa3	Discuss.Com.Hk	Scope	Once	2018-02-01 13:14:59	2018-02-01 13:15:05
13	Completed	477097ef-8017-4507-A412-Ee7085eeb884	Dor		Sa3	Discuss.Com.Hk	Scope	Once	2018-02-01 13:14:51	2018-02-01 13:14:53



## The Resources View

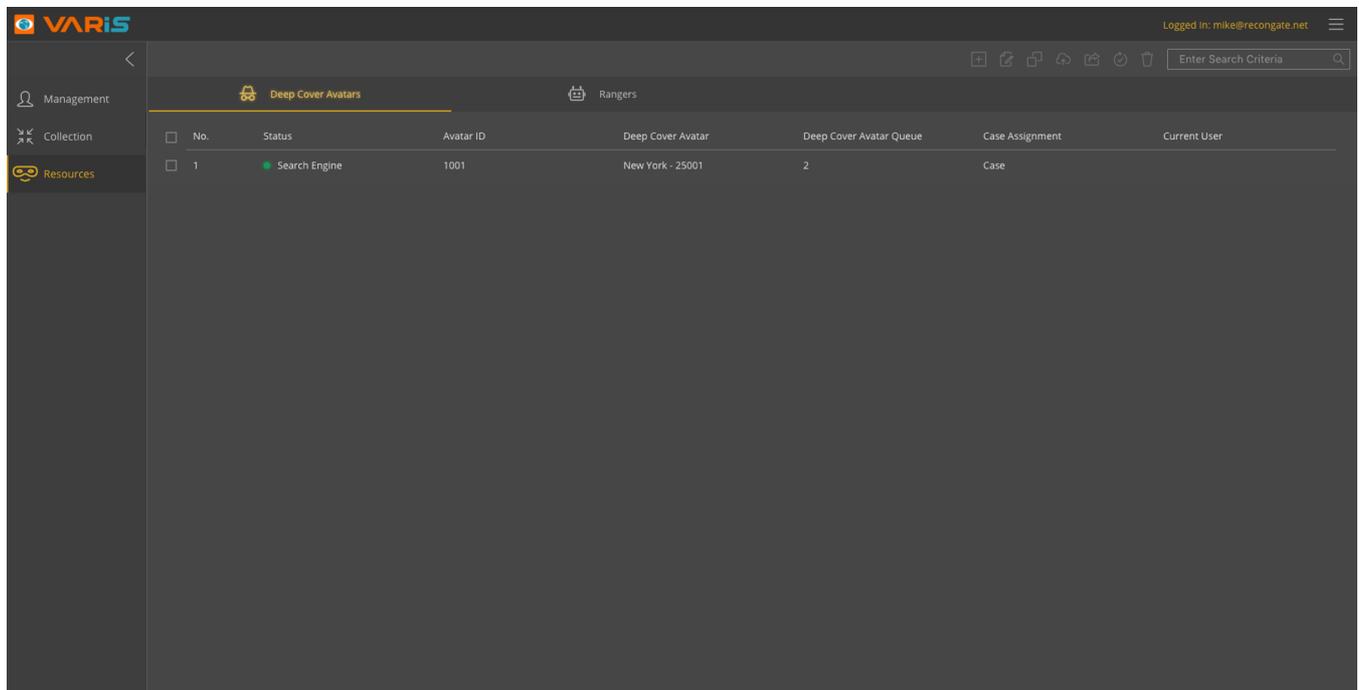
Centralizes all the data collection resources and displays their health status.

### Deep Cover Avatars Tab

The deep cover avatar tab displays the current collection tasks being performed by the system and the number of tasks per deep cover avatar. To view the breakdown of Avatar tasks per specific Social Networks click on the Status row in the Status column.

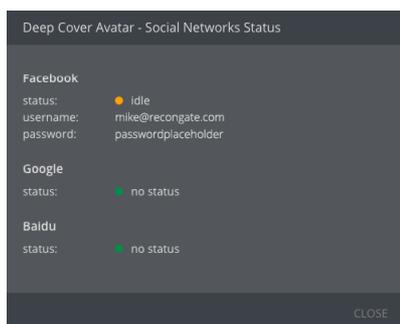
### Avatar Status Legend

- **Active** - The avatar is currently running without incident.
- **Idle** - The avatar task is not running and requires attention.
- **Failure** - The avatar task has failed and needs to be re-started or re-configured.
- **Frozen** – The avatar is blocked and must be manually released or replaced.



### Deep Cover Avatar Status Per Avatar

To view a specific deep cover avatar status simply click on a list item to view the popup details.





## Rangers Tab

The rangers tab displays all the available rangers and their status per search engine, social network.

### Ranger Status Legend

- **OK** – The ranger is currently running without incident.
- **Idle** – The ranger task is not running and requires attention.
- **Failure** - The ranger task has failed and needs to be re-started or re-configured.

No.	Status	Source	Username	Password	Proxy	Port	Creation Date
1	Active	Facebook	79689045449	XEIIUNN	Canada	25024	18/01/1970 - 15:28
2	Active	Facebook	79637297125	SygJ5Wm	Canada	25029	18/01/1970 - 15:28
3	Active	Facebook	79691039161	I1bzVzx	United States	25011	18/01/1970 - 15:28
4	Active	Facebook	79660486889	FUObSxj	United States	25012	18/01/1970 - 15:28
5	Active	Facebook	79629398950	NvhiU09	Bangladesh	25033	18/01/1970 - 15:28
6	Active	Facebook	79654485673	ZkOzalf	Bangladesh	25034	18/01/1970 - 15:28
7	Active	Facebook	79660486950	RUDXonS	United States	25000	18/01/1970 - 15:28
8	Active	Facebook	79683222103	ISxv7m	Afghanistan	25021	18/01/1970 - 15:28
9	Active	Facebook	79686394370	SchLW8	United States	25017	18/01/1970 - 15:28
10	Active	Facebook	79629677808	OCBRj1	United States	25015	18/01/1970 - 15:28
11	Active	Facebook	79686394906	PCDdTzu	Bangladesh	25031	18/01/1970 - 15:28
12	Active	Facebook	79689037481	ShZ2cAt	Bangladesh	25030	18/01/1970 - 15:28
13	Active	Facebook	79096581233	OCFbX3Q	Canada	25027	18/01/1970 - 15:28
14	Active	Facebook	79683222051	LeBLvxt	Canada	25028	18/01/1970 - 15:28
15	Active	Facebook	79683222081	974TMvD	Afghanistan	25023	18/01/1970 - 15:28
16	Active	Facebook	79686394369	SvS05L	United States	25016	18/01/1970 - 15:28
17	Active	Facebook	79670215789	DyKYFSO	Afghanistan	25022	18/01/1970 - 15:28
18	Active	Facebook	79680982402	XmAnSio	United States	25020	18/01/1970 - 15:28
19	Active	Facebook	79691039103	LFmskrW	United States	25018	18/01/1970 - 15:28
20	Active	Facebook	79670224821	AGhVjll	United States	25013	18/01/1970 - 15:28

### Deep Web Browser Release

If a Ranger status is in a **Failure** state, you can manually release it by clicking on the **Release Ranger** button. Varis will open the secured **VNC browser** in a new tab where you can manually reset the ranger when possible.

### Common Status Codes and their Meanings

The following section lists the common symptoms that occur on websites when performing ranger collection tasks, usually meaning that they have been blocked or banned:

- CAPTCHA Pages
- Unusual content delivery delay
- Frequent response with HTTP 202, 301 or 50x errors
- 301 Moved temporarily
- 401 Unauthorized
- 403 Forbidden
- 404 Not Found
- 408 Request Timeout
- 429 Too many requests



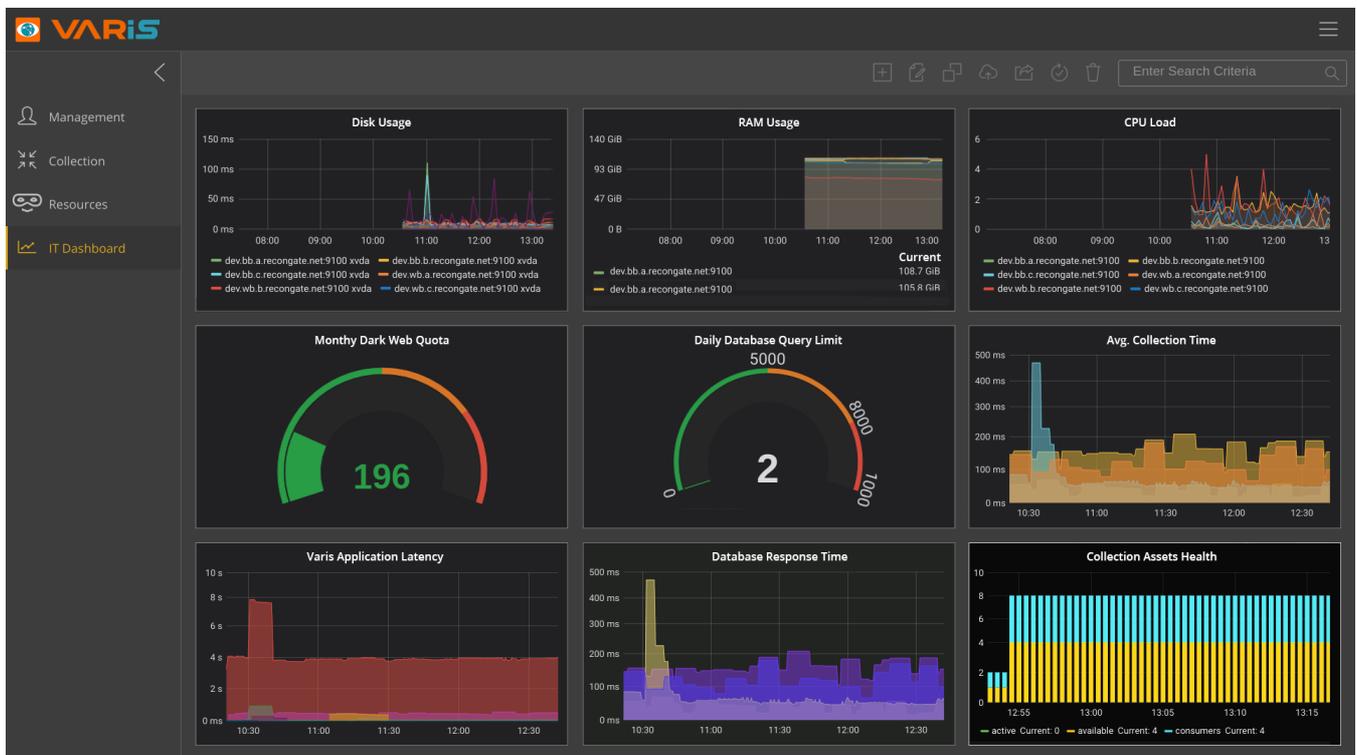
- 503 Service unavailable

## IT Dashboard

The IT Dashboard enables system administrator to view and monitor the overall system health of the Varis deployment. The IT Dashboard is designed to provide a quick and simple interface that reflects all the main usage and traffic functionality of the Varis solution deployment. The UI provides 9 KPI's (Key Performance Indicators) that centralize the application traffic and system health. Use these KPI's to pin point traffic bottlenecks and system problems.

### ReconGate Support

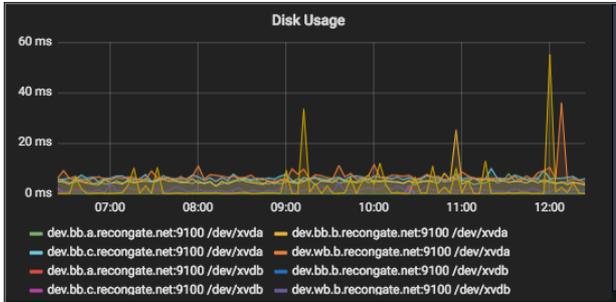
To help you receive accurate help for your system deployment contact your ReconGate support provider if you notice a problem with your system. Potential issues that may arise are reflected in the graphs by a complete lack of availability in the KPI graphs or by noticing that the graphs are peaking out.





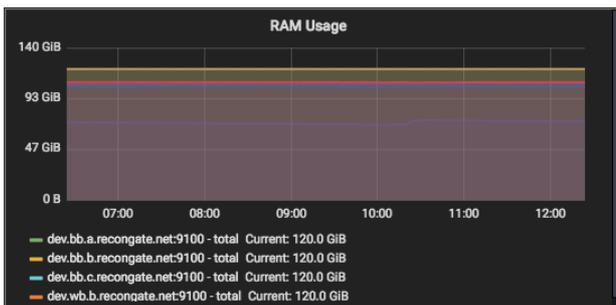
## Disk Usage KPI Graph

The **Disk Usage KPI graph** provides you with a visual representation of **Disk Usage** of your system deployment. If you see that the graph is peaking out, then contact ReconGate support. You may require **additional disk space** for your deployment.



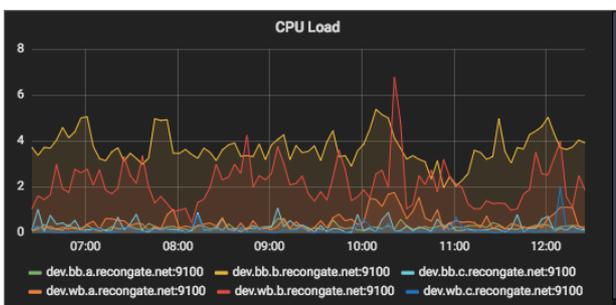
## RAM Usage KPI Graph

The **RAM Usage KPI graph** provides you with a visual representation of **RAM Usage** of your system deployment. If you see that the graph is peaking out, then contact ReconGate support. You may require **additional RAM** for your deployment.



## CPU Load KPI Graph

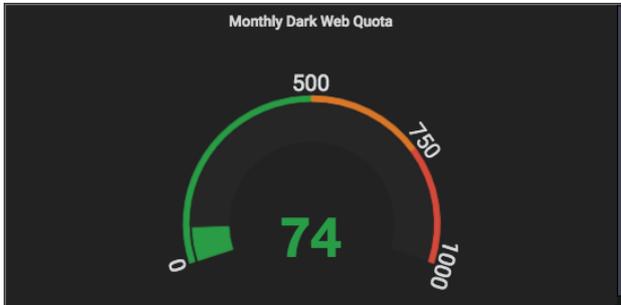
The **CPU load Usage KPI graph** provides you with a visual representation of **CPU load Usage** of your system deployment. If you see that the graph is peaking out, then contact ReconGate support. You may require **additional CPU allotment** for your deployment.





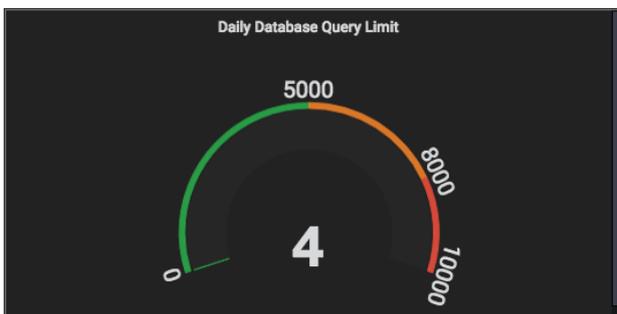
## Monthly Dark Net Quota KPI Graph

The **Monthly Dark Net Quota KPI graph** provides you with a visual representation **Monthly Dark Net Quota Usage** of your system deployment. If you see that the graph is peaking out, then contact ReconGate support. You may require **additional Monthly Dark Net Quota** for your deployment.



## Daily Database Query Limit KPI Graph

The **Daily Database Web Quota KPI graph** provides you with a visual representation **Daily Database Web Quota Usage** of your system deployment. If you see that the graph is peaking out, then contact ReconGate support. You may require **additional Daily Database Web Quota** for your deployment.



## Avg. Collection Time KPI Graph

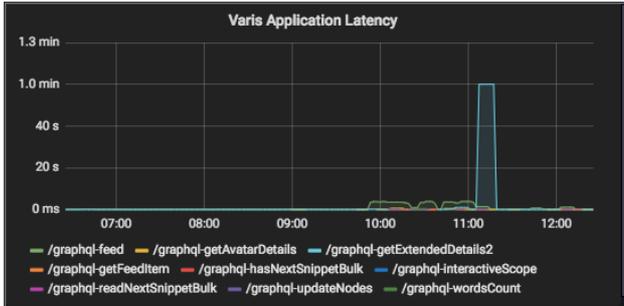
The **Avg. Collection Time KPI graph** provides you with a visual representation **for the average collection time for your system task collection** of your system. If you see that the graph is peaking out, then contact ReconGate support. You may have a collection issue. **Contact the Varis support team.**





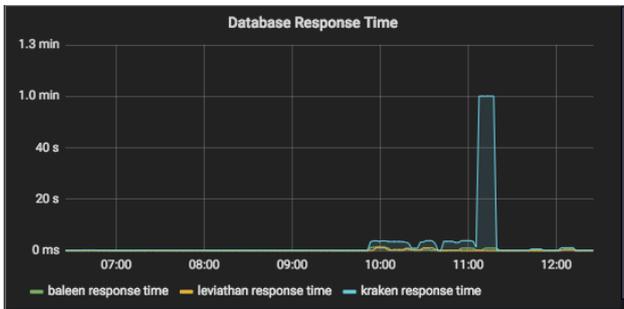
## Varis Application Latency KPI Graph

The **Varis Application Latency KPI graph** provides you with a visual representation **Application Latency for the server response** of your system. If you see that the graph is peaking out, then contact ReconGate support. You may have a Client application issue. **Contact the Varis support team.**



## Database Response Time KPI Graph

The **Database Response Time KPI graph** provides you with a visual representation for the **Database Response Time** of your system. If you see that the graph is peaking out, then contact ReconGate support. You may have a Database issue. **Contact the Varis support team.**



## Collection Assets Health KPI Graph

The **Collection Assets Health KPI graph** provides you with a visual representation for the **Collection Assets** of your system. If you see that the graph is flat, then contact ReconGate support. You may have a assets collection issue. **Contact the Varis support team.**





## Varis Support

For Varis product support you can send an email to [support@recongate.com](mailto:support@recongate.com)