

Integrations

Recorded Future

V5.0.1

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RECORDED FUTURE APPLICATION

The RecordedFuture application enriches the incoming logs with the threat information fetched from *Recorded Future*. You can use the enriched data in dashboards, reports, and alerts to monitor and track threats.

The application fetches threat information of the following entities from *Recorded Future*:

- IP Address
- URL
- Domain
- Hash
- Vulnerability

The application summarizes all the fetched and enriched data of the given entities in an *Intelligence Card*. You can drill forward from the search results to access the Intelligence Card.

Furthermore, the application adds RecordedFuture as a threat intelligence source in the Threat Intelligence application. You can also use the Threat Intelligence process command to further enrich logs with the latest threat information.

1.1 Using RecordedFuture in LogPoint

The following steps summarize the flow of using RecordedFuture in LogPoint:

1. Install the Threat Intelligence application.
2. Install the RecordedFuture application.
3. Add RecordedFuture as a threat intelligence source in the **Threat Intelligence Management** panel or go to *Settings >> Configuration >> Recorded Future*.

4. Select the RecordedFuture entity types to fetch the threat information and store it in LogPoint.
5. Enable the **Enable Drill Forward** option.
6. Map LogPoint fields to the RecordedFuture entity types to drill forward from the fields to the Intelligence Card.
7. Apply an enrichment policy with the Threat Intelligence enrichment source.
8. From the search results, drill forward and find the Intelligence Card for the mapped fields.

INSTALLATION

2.1 Prerequisites

- LogPoint v6.7.3 or later
- Threat Intelligence v5.0.0 or later

2.2 Installing the RecordedFuture Application in LogPoint

1. Go to *Settings >> System >> Applications*.
2. Click **Import**.
3. **Browse** for the location of the downloaded pak file for the RecordedFuture application.
4. Click **Upload**.

After installing the application, you can find the installed plugins under *Settings >> System >> Plugins*.

CONFIGURATION

3.1 Configuring the RecordedFuture Application in LogPoint

1. Go to *Settings >> Configuration >> Recorded Future*.
2. Select **Settings**.
3. Select the **Enable Source** option to activate the *Recorded Future* threat intelligence source.
4. Enter the **API Key** provided by *Recorded Future*.
5. Select the required **Entities**. The application fetches and stores data of the selected entities only.
6. Select the **Enable Proxy** option to connect to *Recorded Future* via a proxy server.
7. In the **Proxy Configuration** section:
 - 7.1 Enter the **IP address** and the **Port number** of the proxy server.
 - 7.2 Select the **HTTP** or **HTTPS** protocol as required.
8. Click **Submit**.

The screenshot displays the LogPoint interface with the 'Recorded Future' settings page. The top navigation bar includes 'LOGPOINT', 'DASHBOARD', 'SEARCH', 'REPORT', 'INCIDENT', and 'SETTINGS' (highlighted). The left sidebar shows 'General Information', 'Settings' (highlighted), and 'Drill Forward Settings'. The main content area is titled 'Recorded Future' and contains the following configuration options:

- ☒ **Enable Source**
- API Key: [Text input field]
- Entities: ☒ IP Address ☒ URL ☒ Domain ☒ Hash ☒ Vulnerability
- ☒ **Enable Proxy**
- Proxy Configuration:
 - IP/Port: [192.168.2.65] [80]
 - Protocol: ☒ HTTP ☐ HTTPS

At the bottom right of the configuration area are 'Submit' and 'Cancel' buttons. The bottom navigation bar includes 'USER ACCOUNTS', 'CONFIGURATION', 'KNOWLEDGE BASE', 'SYSTEM', and 'RECORDED FUTURE'.

Fig. 1: Configuring Recorded Future

Note: The data fetched from *Recorded Future* is stored in the Threat Intelligence database. Therefore, you must use the Threat Intelligence enrichment source while creating an enrichment policy for the RecordedFuture application.

3.2 Configuring Drill Forward

The RecordedFuture application enriches the incoming logs with the threat information fetched from *Recorded Future*. You can find the enriched logs using the **Search** tab in LogPoint and can further drill forward on the enriched fields to access the [Intelligence Card](#). To use the drill forward feature, you must enable the drill forward option and map the LogPoint fields with the *Recorded Future* entity type. You can only drill forward from the mapped fields.

The application maps the following fields by default:

LogPoint Taxonomy Field	Recorded Future Entity Type
source_address	IP Address
destination_address	IP Address
ip_address	IP Address
device_ip	IP Address
host_address	IP Address
hash	Hash
hash_sha256	Hash
hash_sha1	Hash
domain	Domain
url	URL
threat	Vulnerability

Follow these steps to use the drill forward feature:

1. Go to *Settings >> Configuration >> Recorded Future*.
2. Select **Drill Forward Settings**.
3. Select the **Enable Drill Forward** option.
4. Select the **Type** of entity from the drop-down menu.
5. Enter the **LogPoint Taxonomy Field** to map it with the *Recorded Future* entity type.
6. Click **Add**.
7. Click **Submit**.

Recorded Future

General Information
Settings
Drill Forward Settings

☒ Enable Drill Forward

ADD NEW KEY VALUE

Type: Vulnerability

LogPoint Taxonomy Field: threat_category

Add

S.N.	LogPoint Taxonomy Field	Type	Actions
1	source_address	IP Address	
2	destination_address	IP Address	
3	ip_address	IP Address	
4	device_ip	IP Address	
5	host_address	IP Address	
6	hash	Hash	
7	hash_sha256	Hash	
8	hash_sha1	Hash	
9	domain	Domain	
10	url	URL	
11	threat	Vulnerability	

Submit

USER ACCOUNTS CONFIGURATION KNOWLEDGE BASE SYSTEM RECORDED FUTURE

Fig. 2: Enabling Drill Forward

GENERAL INFORMATION

The **General Information** page gives an overview of the fetched information from *Recorded Future*. The page consists of risk lists of the entities.

It also displays the following information on a table:

Column	Description
Name	Name of the entity risk lists
Type	Type of entity
Last Successful Fetch	Date and time on which the data was last fetched
Status	Status of the data fetch. It can be Fetching, Completed, or Error
Number of Records	Total number of records fetched according to the entity type

LOGPOINT

DASHBOARD

SEARCH

REPORT

INCIDENT

SETTINGS

04:58:57 admin

Recorded Future

General Information

Settings

Drill Forward Settings

Total Records: 293522

S.N.	Name	Type	Last Successful Fetch	Status	Number of Records
1	IP Risklist	IP	2019-07-10 04:00:37	Completed	35091
2	Domain Risklist	Domain	2019-07-10 03:01:12	Completed	14845
3	URL Risklist	URL	2019-07-10 03:01:12	Completed	100000
4	Hash Risklist	Hash	2019-07-09 11:02:25	Completed	100000
5	Vulnerability Risklist	Vulnerability	2019-07-09 11:02:25	Completed	43586

USER ACCOUNTS

CONFIGURATION

KNOWLEDGE BASE

SYSTEM

RECORDED FUTURE

Fig. 1: General Information

All the risk lists are updated in a particular interval and use certain API credits as mentioned below:

Risk List	Update Interval	Total API Credits per day
IP Address	Every one hour	120 credits
Domain	Every two hours	60 credits
URL	Every two hours	60 credits
Hash	Once a day	5 credits
Vulnerability	Once a day	5 credits

Your total API credit is 250 per day if you select all the entities.

SEARCH AND DRILL FORWARD

Follow these steps to drill forward on the enriched field:

1. Search for the enriched logs.

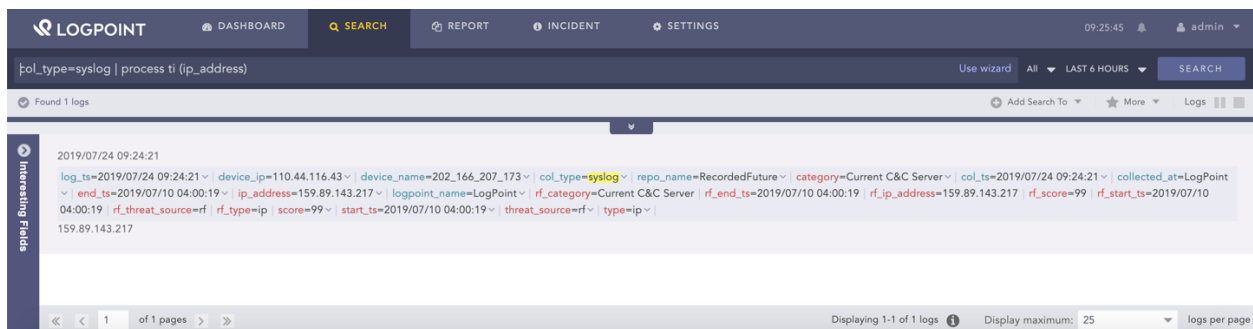


Fig. 1: Search Tab

2. Click the drop-down menu of the previously mapped field from *Configuring Drill Forward*.

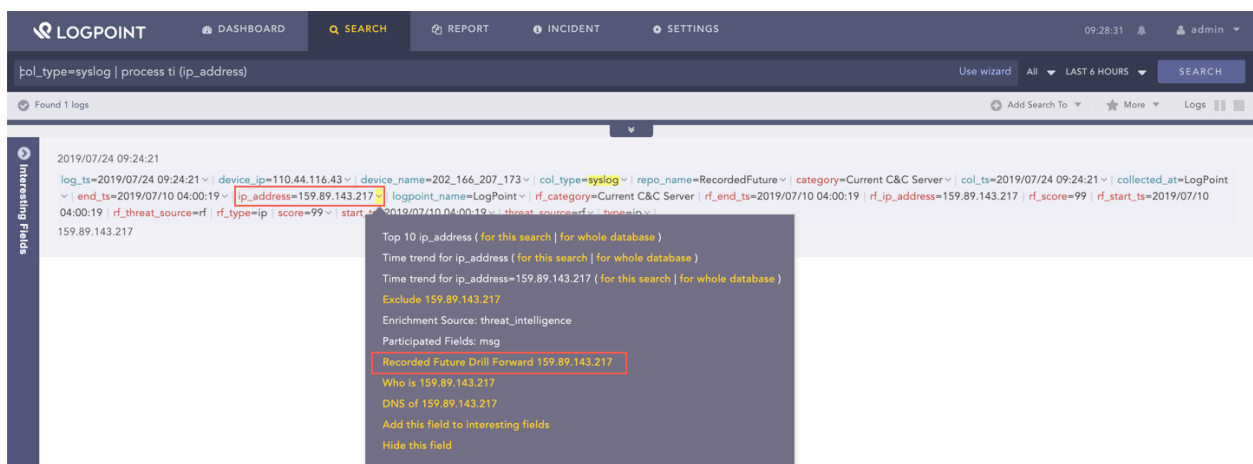


Fig. 2: Recorded Future Drill Forward

3. Click **Recorded Future Drill Forward**.

Note: Each drill forward uses 1 API credit.

The application redirects you to the **Intelligence Card** page.

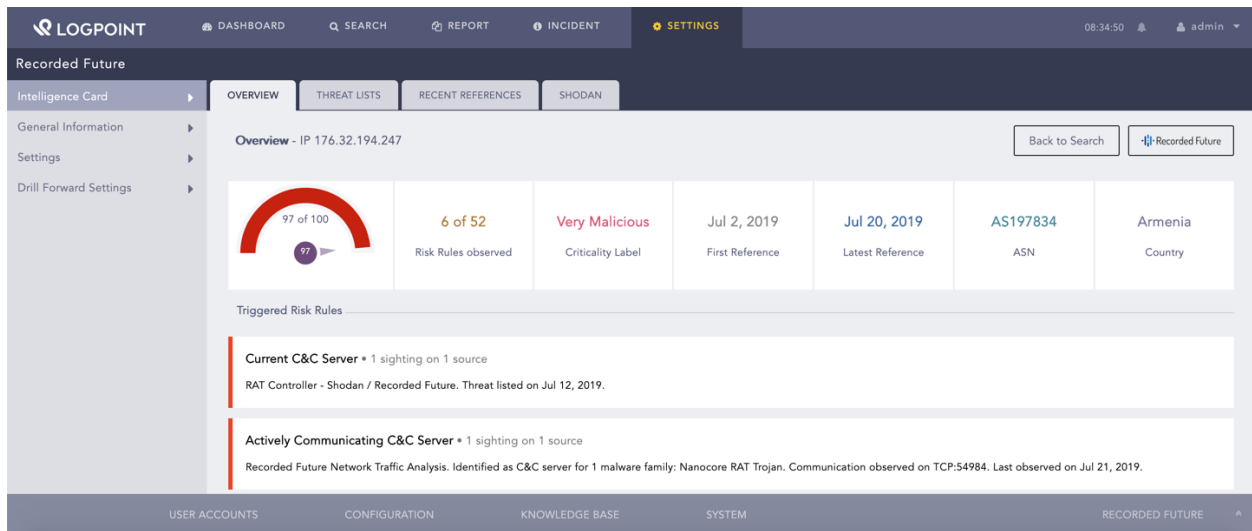


Fig. 3: Intelligence Card

INTELLIGENCE CARD

The **Intelligence Card** page summarizes all the threat information fetched and analyzed by *Recorded Future* on the selected entity.

You can find the Intelligence Cards of the following entity types:

- IP Address
- URL
- Domain
- Hash
- Vulnerability

The following section describes the components found in the **Intelligence Card** page.

6.1 Overview

The **Overview** tab summarizes the risk information, including *Recorded Future* risk score and triggered risk rules of the selected entity.

6.1.1 Heading

The top of the **Overview** tab displays the entity you drilled forwarded from the search results.

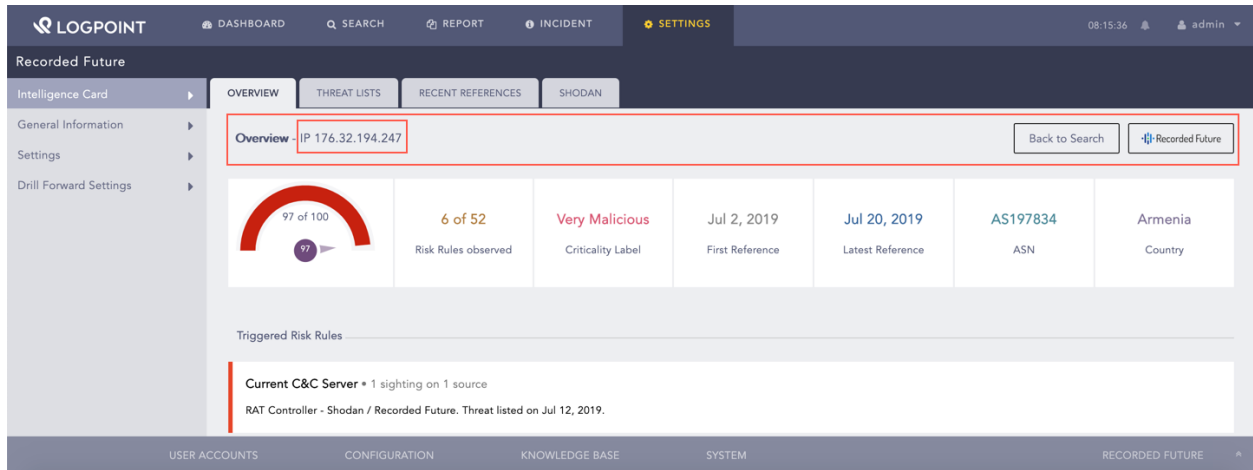


Fig. 1: Selected Entity

The **Back to Search** option redirects you to the search results page, and the **Recorded Future** option redirects you to *Recorded Future's* Intelligence Card.

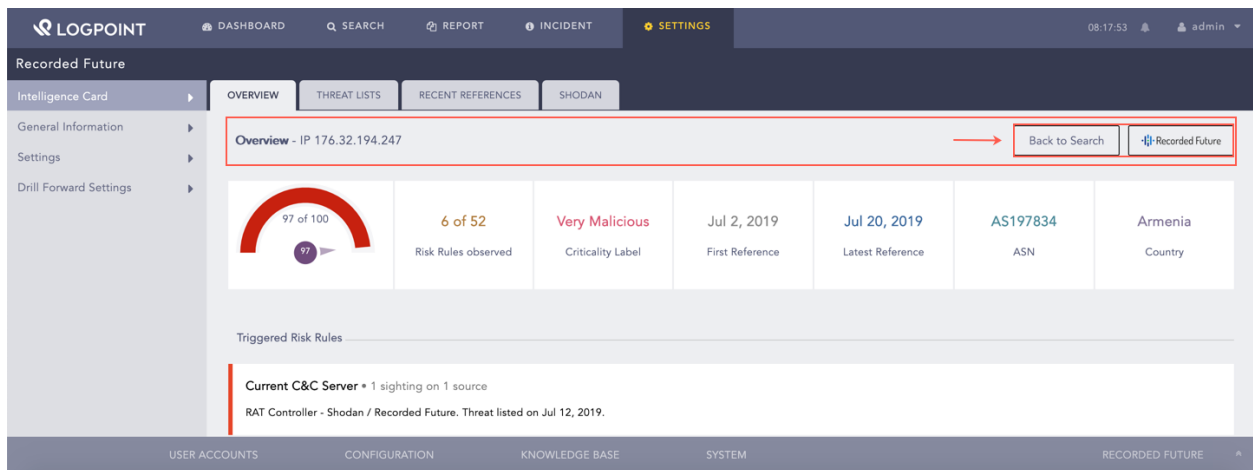


Fig. 2: Back to Search

6.1.2 Risk Score and Risk-Related Content

Recorded Future generates a risk score of the specific risk-related content. It generates the score by analyzing the level of risk on the threat information gathered from various sources. It analyzes risks based on its own set of risk rules and threat lists. Each risk rule has a criticality, a criticality label, and a risk score. The risk rule is color-coded by the criticality of the threat.

Criticality Label	Criticality	Risk Scores	Color
Very Malicious	4	90-99	Red
Malicious	3	65-89	Red
Suspicious	2	25-64	Bright Yellow
Unusual	1	5-24	Light Gray
No current evidence of risk	0	0	Light Gray

The gauge chart displays the risk score of the entity.

The **Risk Rules observed** widget displays the number of triggered risk rules.

The **Criticality Label** widget displays the severity level of the risk rule.

The **First Reference** widget displays the earliest report, and the **Latest Reference** widget displays the most recent report for the selected field.

The **ASN** widget displays the autonomous system numbers (ASN), which is a unique identifier of each network on the internet.

The **Country** widget displays the country from where the threat is reported.

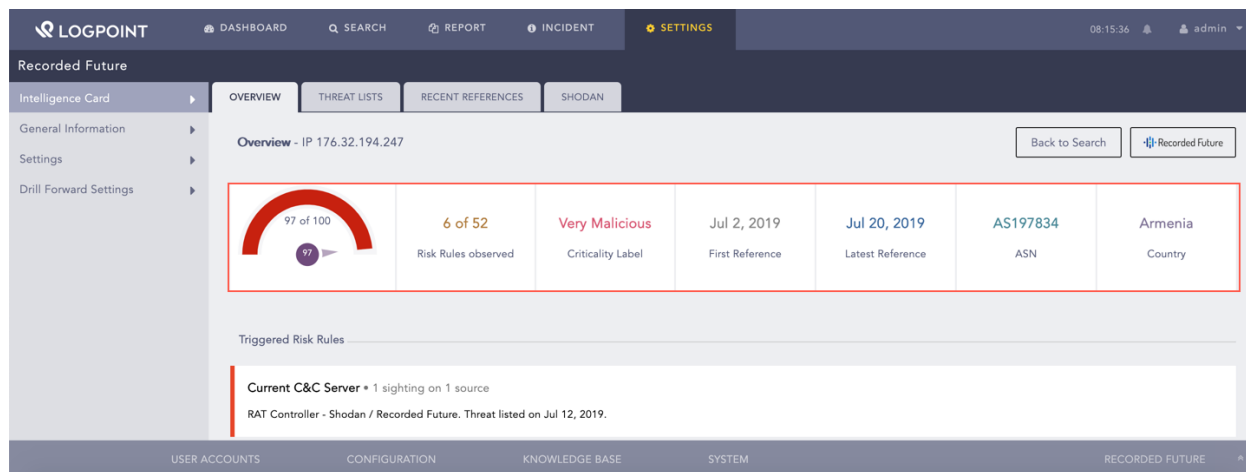


Fig. 3: Risk Score and Risk-Related Content

6.1.3 Triggered Risk Rules

Recorded Future has its own set of risk rules that are triggered based on the risk rule evidence found in different sources. The sources include threat feeds and IP reputation lists, security research blogs, social media posts, paste sites, underground forums, and malware analysis services. You can find the triggered risk rules and their details under the **Triggered Risk Rules** section.

The screenshot displays the Logpoint Recorded Future web interface. The top navigation bar includes the Logpoint logo and tabs for DASHBOARD, SEARCH, REPORT, INCIDENT, and SETTINGS (which is highlighted). The user is logged in as 'admin' at 08:24:43. The main content area is titled 'Recorded Future' and features a sidebar with options: Intelligence Card, General Information, Settings, and Drill Forward Settings. The 'Intelligence Card' is selected, showing a section titled 'Triggered Risk Rules'. This section contains three entries:

- Current C&C Server** • 1 sighting on 1 source
RAT Controller - Shodan / Recorded Future. Threat listed on Jul 12, 2019.
- Actively Communicating C&C Server** • 1 sighting on 1 source
Recorded Future Network Traffic Analysis. Identified as C&C server for 1 malware family: Nanocore RAT Trojan. Communication observed on TCP:54984. Last observed on Jul 21, 2019.
- Recently Linked to Intrusion Method** • 2 sightings on 1 source
ReversingLabs. 2 related intrusion methods: Trojan.Injector, Injector. Most recent link (Jul 17, 2019): <https://a1000.reversinglabs.com/accounts/login/?next=/%3Fq%3Da71f47841daca771bc0af4791f8151c2bfa3931338ba752047cfa5f3f6d1a66>

The bottom of the interface has a navigation bar with links to USER ACCOUNTS, CONFIGURATION, KNOWLEDGE BASE, SYSTEM, and RECORDED FUTURE.

Fig. 4: Triggered Risk Rules

6.2 Threat Lists

The **Threat Lists** tab consists of the threat lists created by *Recorded Future*. It creates the list by analyzing its threat intelligence and collection of threat lists and the whitelists published in the external community. You can find the threat lists for the selected entity under **Threat Lists**.

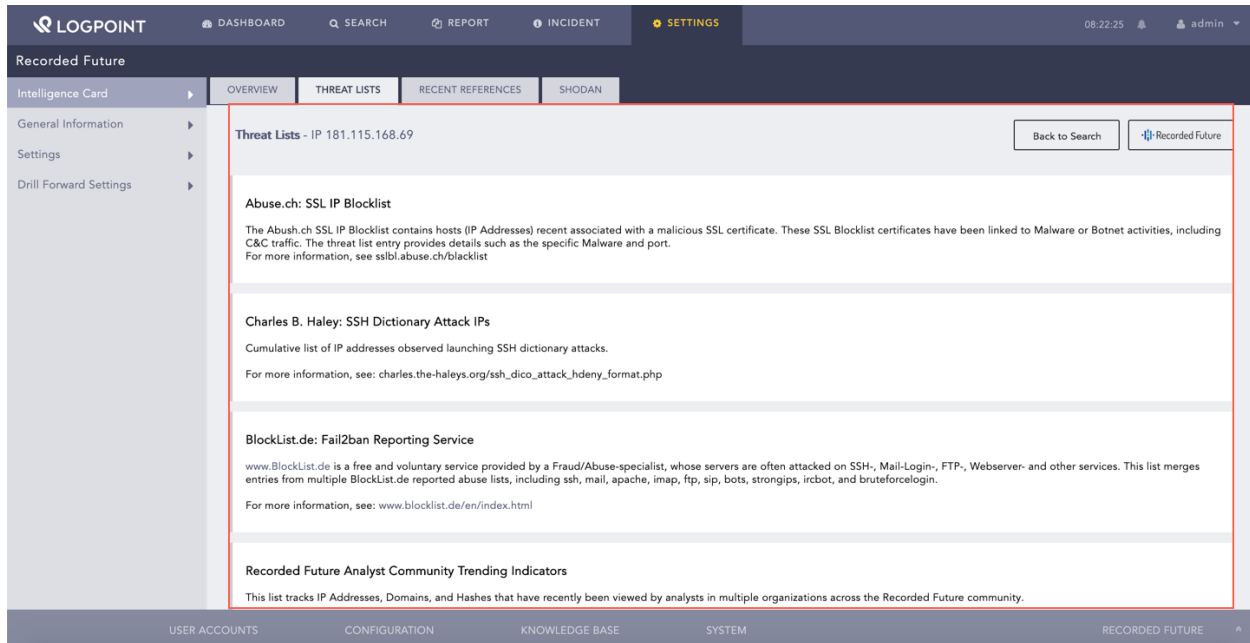


Fig. 5: Threat Lists

6.3 Recent References

The **Recent References** tab consists of entity references in external sources. These sources include cyber events, paste sites, social media, information security sources, underground forums, and dark web sources. The **Recent References** section displays the following information for each reference:

- Type
- Title
- Source
- Published
- Fragment
- URL

Recorded Future

Intelligence Card

General Information

Settings

Drill Forward Settings

Recent References - IP 176.32.194.247

Back to Search

Recorded Future

Type:	Most Recent
Title:	ReversingLabs scan for SHA-256 a71f47841daca771bc0af4791f8151c2bfa3931338ba752047cfa5f3fd1a66
Source:	ReversingLabs
Published:	2019-07-17T04:13:19.000Z
Fragment:	Trojan.Injector on 2019-07-19T20:14:39 : TCP Destinations: address: 192.168.2.73 port: 54095 address: 192.168.2.73 port: 62139 address: 192.168.2.73 port: 49164 address: 192.168.2.73 port: 51957 address: 192.168.2.73 port: 49159 address: 192.168.2.73 port: 63361 address: 192.168.2.73 port: 49170 address: 8.8.8.8 port: 53 address: 176.32.194.247 port: 54984 address: 192.168.2.73 port: 49166 .
Url:	https://a1000.reversinglabs.com/accounts/login/?next=/%3Fq%3Da71f47841daca771bc0af4791f8151c2bfa3931338ba752047cfa5f3fd1a66

Type:	Recent Info Sec
Title:	ReversingLabs scan for SHA-256 a71f47841daca771bc0af4791f8151c2bfa3931338ba752047cfa5f3fd1a66
Source:	ReversingLabs
Published:	2019-07-17T04:13:19.000Z
Fragment:	Trojan.Injector on 2019-07-19T20:14:39 : TCP Destinations: address: 192.168.2.73 port: 54095 address: 192.168.2.73 port: 62139 address: 192.168.2.73 port: 49164 address: 192.168.2.73 port: 51957 address: 192.168.2.73 port: 49159 address: 192.168.2.73 port: 63361 address: 192.168.2.73 port: 49170 address: 8.8.8.8 port: 53 address: 176.32.194.247 port: 54984 address: 192.168.2.73 port: 49166 .
Url:	https://a1000.reversinglabs.com/accounts/login/?next=/%3Fq%3Da71f47841daca771bc0af4791f8151c2bfa3931338ba752047cfa5f3fd1a66

USER ACCOUNTS CONFIGURATION KNOWLEDGE BASE SYSTEM RECORDED FUTURE

Fig. 6: Recent References

6.4 Shodan

Shodan is a search engine for internet-connected devices that enriches the IP Address and Vulnerability Intelligence Cards with its fetched data. Shodan enriches the IP Address Intelligence Card with the following data:

- Country
- Organization
- Operating system
- ISP
- Last update date
- Autonomous system number (ASN)
- Known vulnerabilities
- Device use tags
- Ports

Shodan also displays the geographic location of an IP address on a map.

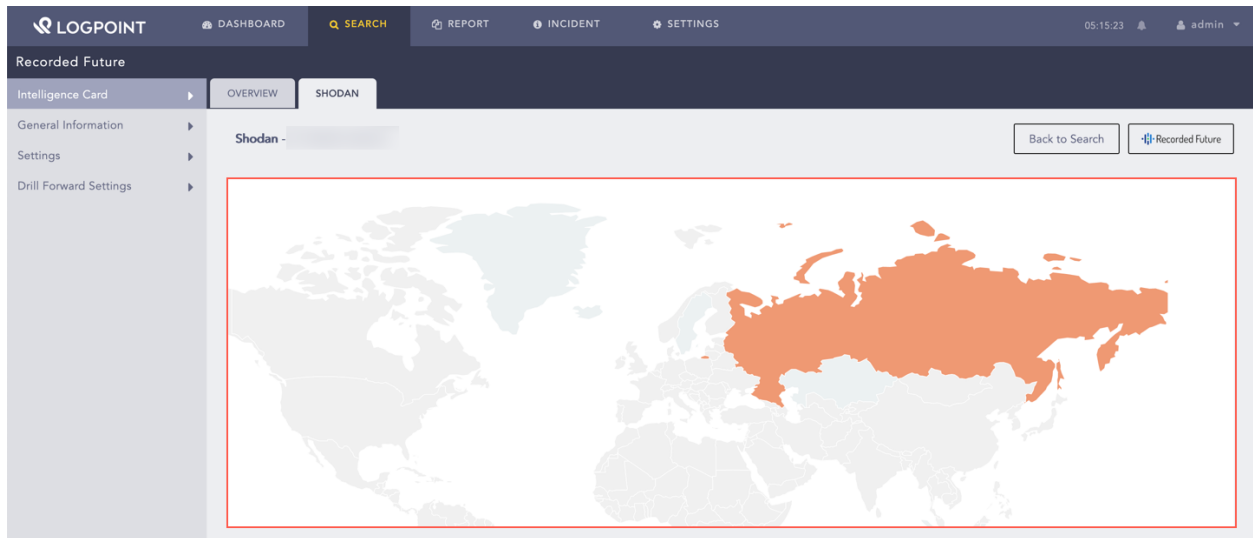


Fig. 7: Map

You can find the enriched data for the IP address under **General Information**, **Tags**, and **Ports**.

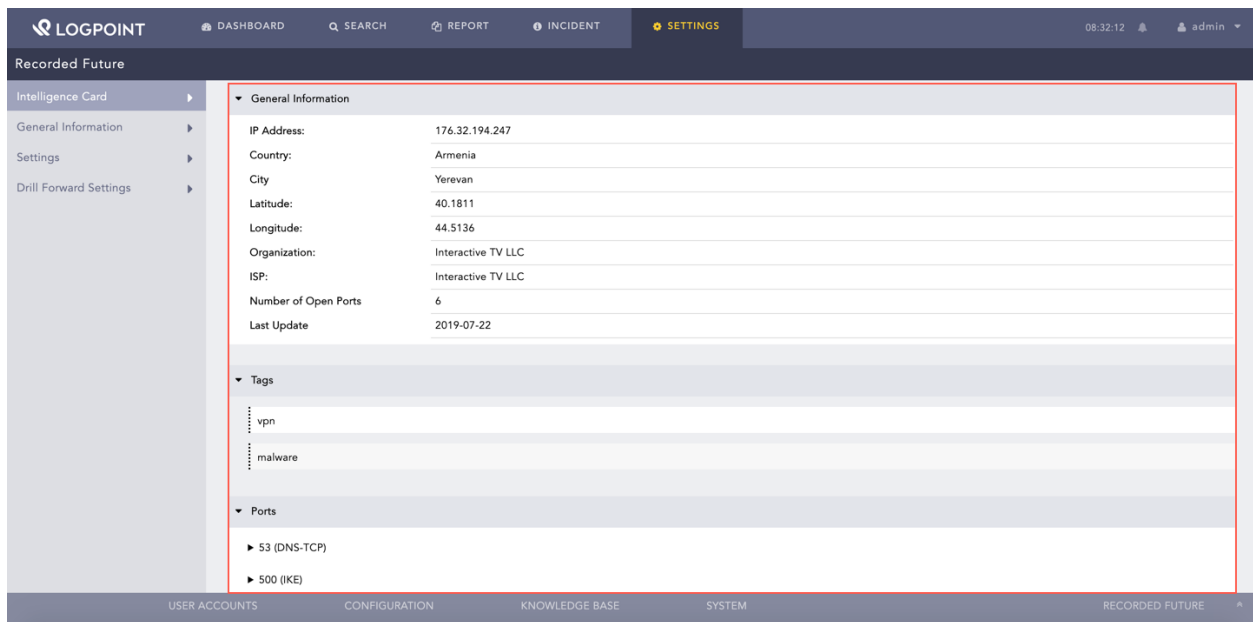


Fig. 8: Enriched Data for IP Address

Shodan enriches the Vulnerability Intelligence Card with fetched data from the Exploit Database. You can find the enriched data under the **Exploits** section.

The screenshot shows the Recorded Future web interface. The top navigation bar includes LOGPOINT, DASHBOARD, SEARCH, REPORT, INCIDENT, and SETTINGS. The user is logged in as 'admin' at 11:13:38 AM. The main content area is titled 'Recorded Future' and shows the 'Shodan - Vulnerability CVE-2012-0507' page. The left sidebar has tabs for 'Intelligence Card', 'OVERVIEW', 'RECENT REFERENCES', and 'SHODAN'. The 'SHODAN' tab is active. The page displays enriched data under the 'Exploits' section, which is highlighted with a red border. The data is organized into two sections: one for ExploitDB and one for Metasploit.

Source	Date	CVE(s)	Description
ExploitDB	2012-03-30	cve-2012-0507, CVE-2012-0507	Java - AtomicReferenceArray Type Violation (Metasploit)
Metasploit		CVE-2012-0507, cve-2012-0507	This module exploits a vulnerability due to the fact that AtomicReferenceArray uses the Unsafe class to store a reference in an array directly, which may violate type safety if not used properly. This allows a way to escape the JRE sandbox, and load additional classes in order to perform malicious operations.

Fig. 9: Enriched Data for Vulnerability

UNINSTALLATION

7.1 Uninstalling the RecordedFuture Application in LogPoint

1. Go to *Settings >> System >> Applications*.
2. Click the **Uninstall** (🗑️) icon from the *Actions* column.

Note: You must disable the RecordedFuture threat intelligence source before uninstalling the application.
