

How To Use Suricata With Nagios Network Analyzer 2026

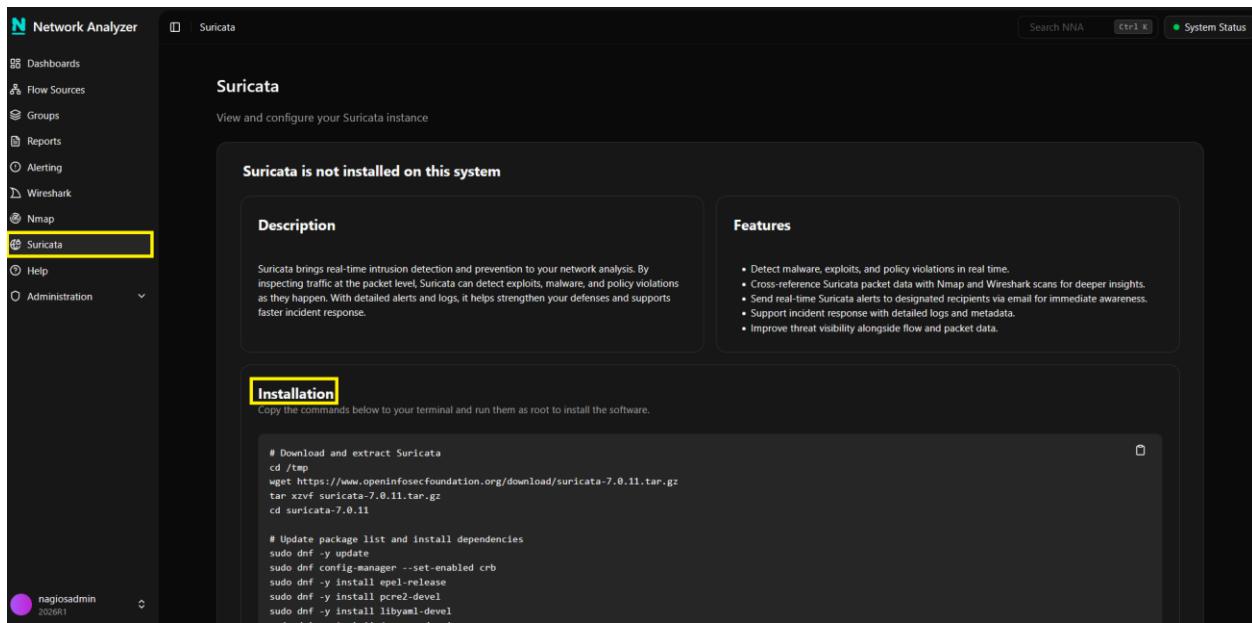
Purpose

This document describes how to install Suricata alongside Nagios Network Analyzer 2026, and how to use the integrated network interface and pcap file scanning, alert viewing, and ruleset management capabilities.

Initial Setup

To begin, navigate to the **Suricata** section of the UI, and run the commands in the **Installation** section from the command line of your Network Analyzer server. You can use the **Copy** button to copy all of the commands, then paste them into the command prompt and hit **Enter** to run the entire install process.

You can also find the commands in the [Installation Commands](#) section of this guide.



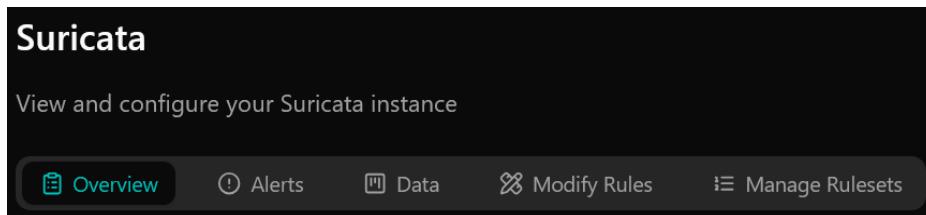
The screenshot shows the Nagios Network Analyzer 2026 interface. The left sidebar has a 'Suricata' link highlighted in yellow. The main content area is titled 'Suricata' and displays a message: 'Suricata is not installed on this system'. It has two main sections: 'Description' and 'Features'. The 'Description' section explains that Suricata brings real-time intrusion detection and prevention to network analysis. The 'Features' section lists several capabilities. Below these is an 'Installation' section with a yellow header, containing a 'Copy' button and a block of command-line text:

```
# Download and extract Suricata
cd /tmp
wget https://www.openinfosecfoundation.org/download/suricata-7.0.11.tar.gz
tar xvzf suricata-7.0.11.tar.gz
cd suricata-7.0.11

# Update package list and install dependencies
sudo dnf -y update
sudo dnf config-manager --set-enabled crb
sudo dnf -y install epel-release
sudo dnf -y install pcre2-devel
sudo dnf -y install libyaml-devel
sudo dnf -y install libpcap-devel
```

The installation will take a few minutes to complete once started.

Once the installation completes, refresh the Suricata page. You will now see several tabs of options.



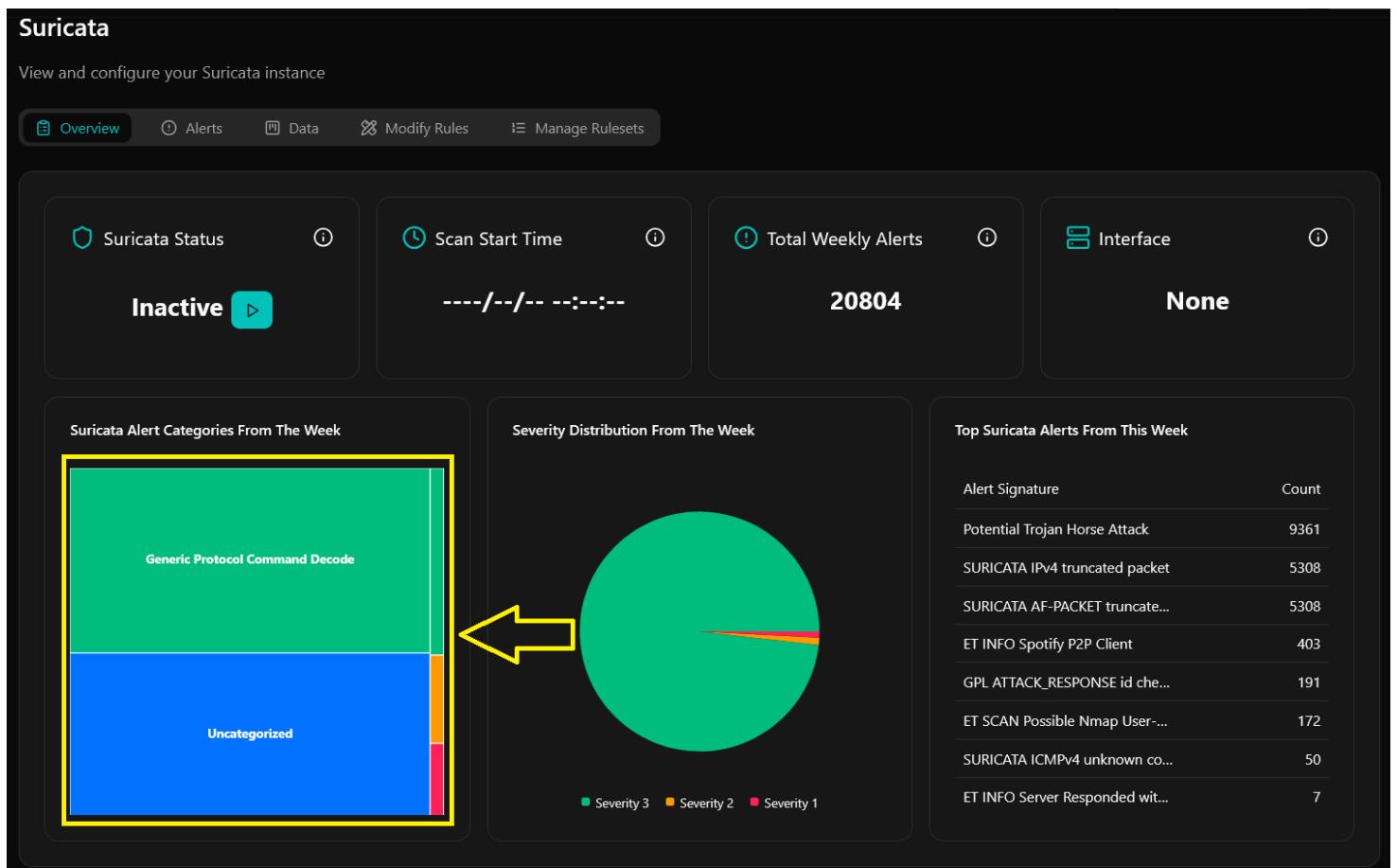
The screenshot shows the Nagios Network Analyzer 2026 interface with the 'Suricata' page. At the bottom, there are five tabs: 'Overview' (highlighted in blue), 'Alerts', 'Data', 'Modify Rules', and 'Manage Rulesets'.

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Overview Tab

This tab provides a way to view Suricata Status, start a Suricata scan of the primary Network Analyzer server network interface, view the start time of the current scan if one is running, view Total Weekly Alerts, view a treemap of Suricata Alert Categories, view a pie chart of alert Severity Distribution, and view Top Suricata Alerts From This Week.

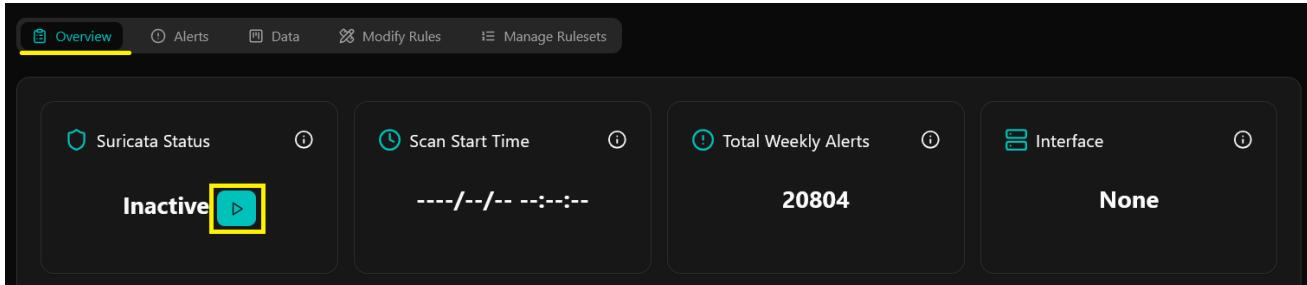
Note that you can hover over any section of the Suricata Alert Categories treemap panel to see the number of matching alerts, and click them to drill down to a pre-filtered list of alerts in the category.



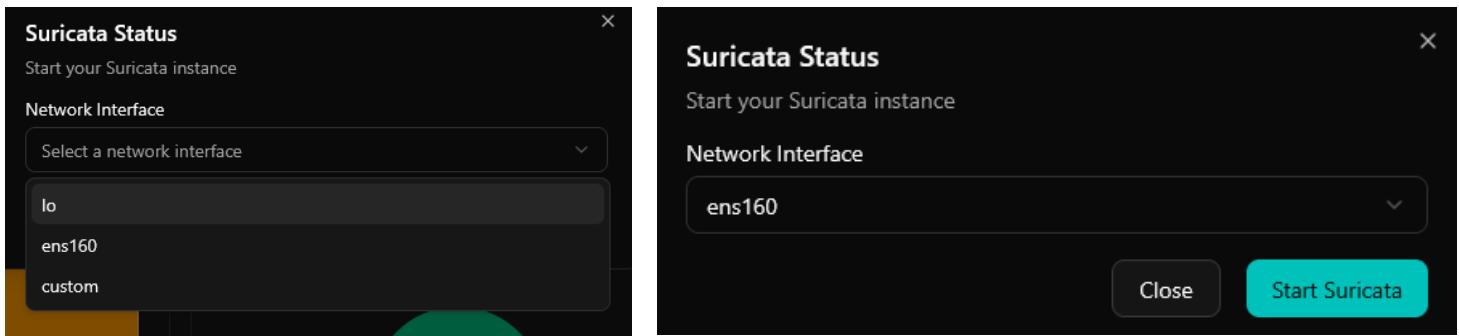
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Starting and Stopping a Scan

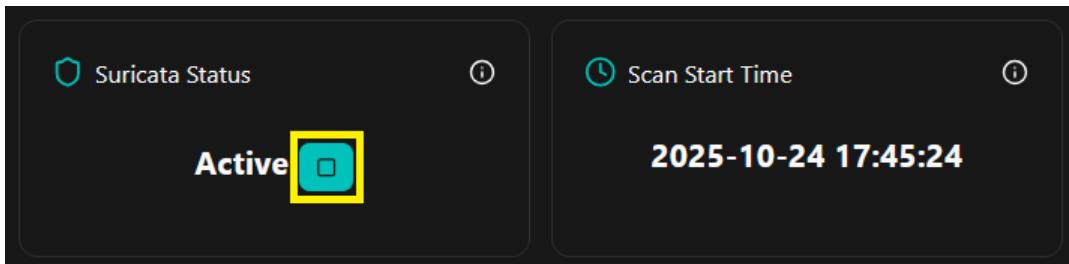
To start a Suricata scan, go to the **Overview** tab, then click the **start** button in the **Suricata Status** panel:



Choose the interface you'd like to scan, then click **Start Suricata**:



When you're ready to stop the scan, click the **stop** button:



Any alerts resulting from the scan will appear in the **Alerts** tab.

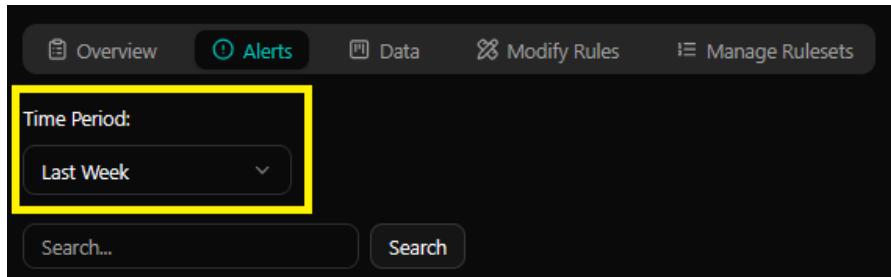
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Alerts Tab

Alerts generated based on your [Rules](#), found by scans run from the **Overview** tab, can be found here.

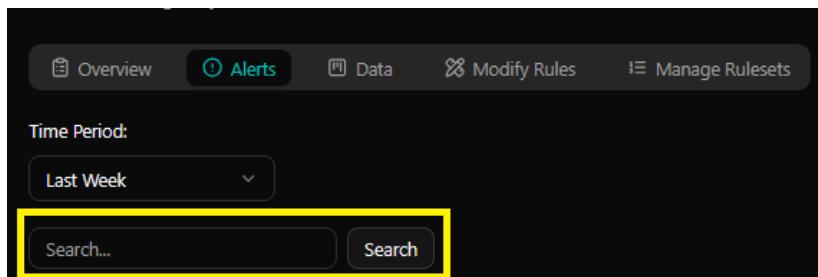
Adjusting the Time Period

Use the **Time Period** dropdown to view alerts from the last hour, day, week, month, or year.



Searching Alerts

Use the **Search** bar to find specific alerts:



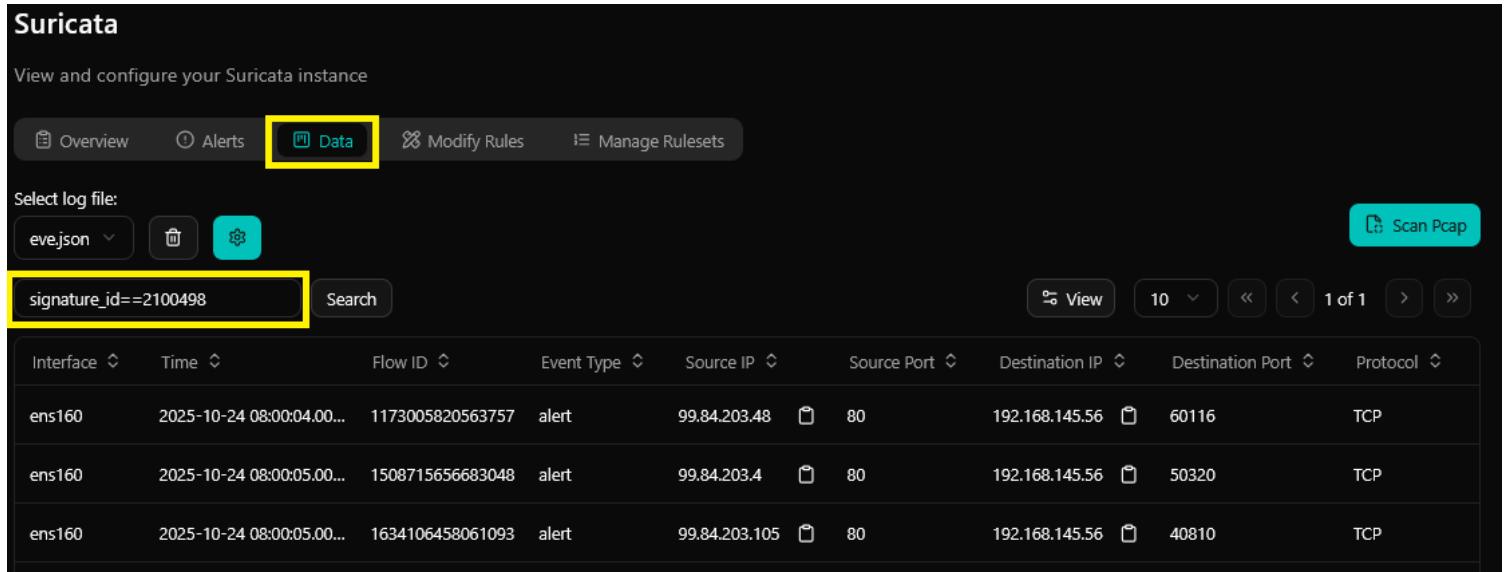
Reviewing Alert Details

To drill down to the individual entries that generated alerts, simply click an entry in the alerts table:

A screenshot of the Nagios Network Analyzer interface showing the 'Suricata' section. The table lists several alert entries. The fourth row, which contains the alert with SID 2029340 and the signature 'ET INFO TLS Handshake Failure', is highlighted with a yellow box. The table has columns for SID, Count, Signature, Category, Severity, and Last Seen. The 'Severity' column uses a color-coding scheme where green represents level 3 and yellow represents level 2.

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This will switch you to a list of matching alert events in the **Data** tab, filtered by the SID (Signature ID) of the chosen alert:



The screenshot shows the Suricata interface with the 'Data' tab selected. The search bar contains the query 'signature_id==2100498'. The table below shows three alert events:

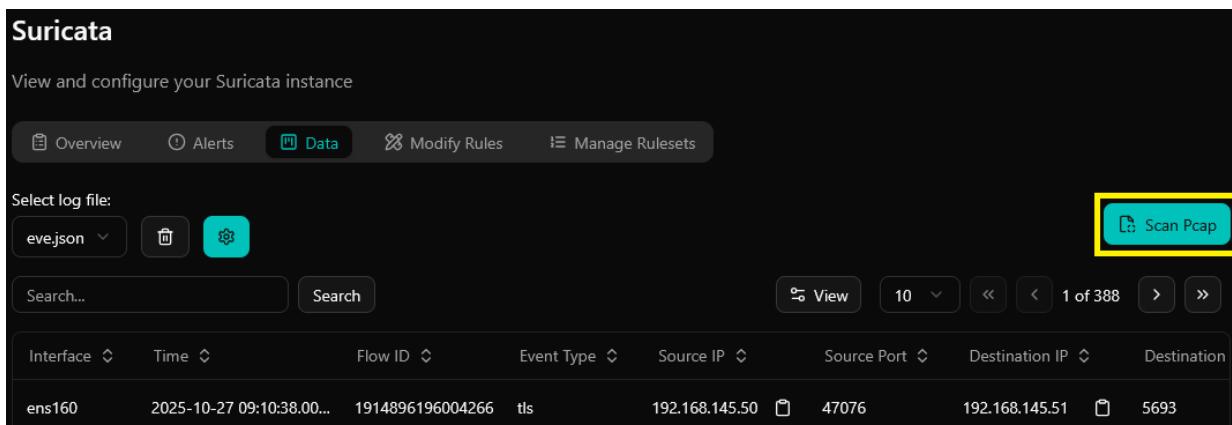
Interface	Time	Flow ID	Event Type	Source IP	Source Port	Destination IP	Destination Port	Protocol
ens160	2025-10-24 08:00:04.00...	1173005820563757	alert	99.84.203.48	80	192.168.145.56	60116	TCP
ens160	2025-10-24 08:00:05.00...	1508715656683048	alert	99.84.203.4	80	192.168.145.56	50320	TCP
ens160	2025-10-24 08:00:05.00...	1634106458061093	alert	99.84.203.105	80	192.168.145.56	40810	TCP

Data Tab

Here you can scan Pcap files, and review the raw data from Pcap scans you have run, either directly with the **Scan Pcap** button found here, or that you chose to scan with Suricata via the **Wireshark > Capture History** tab (you can learn more about integrating Wireshark [here](#)).

Scanning a PCAP File

To scan a pcap file with Suricata, first click the **Scan Pcap** button:

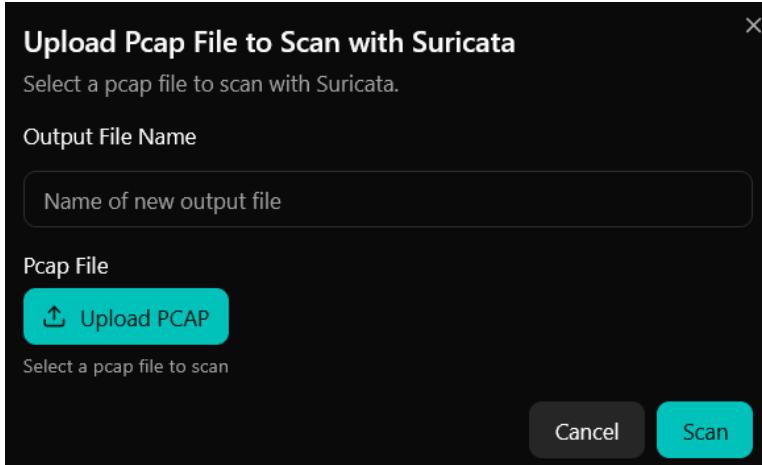


The screenshot shows the Suricata interface with the 'Data' tab selected. The 'Scan Pcap' button is highlighted with a yellow box. The table below shows one alert event:

Interface	Time	Flow ID	Event Type	Source IP	Source Port	Destination IP	Destination Port	Protocol
ens160	2025-10-27 09:10:38.00...	1914896196004266	tls	192.168.145.50	47076	192.168.145.51	5693	

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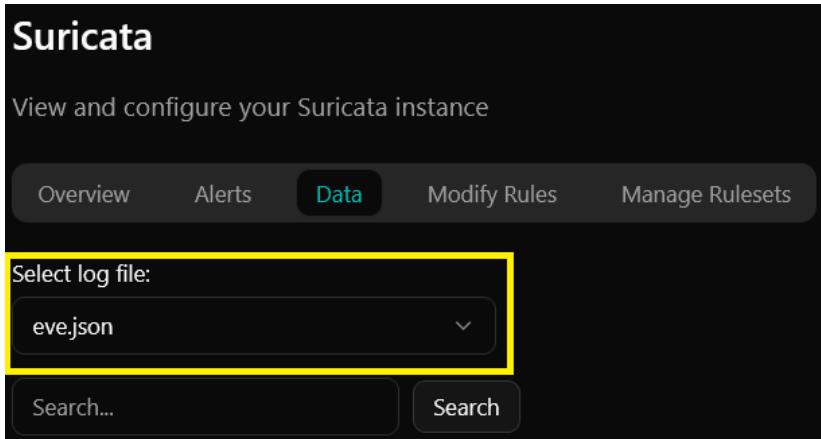
Next, define the **Output File Name** (which is what it will show as in the **Select Log File** dropdown), click **Upload PCAP** to select a file, then click **Scan**:



Once the scan completes, the raw data will appear in the events table here on the **Data** tab.

Viewing Scan Data

To view scan data, first select a log file using the **Select log file** dropdown:



The `eve.json` file is your main suricata file, and contains the results of the most recent Suricata scan run from the **Overview** tab.

Other files would include either Pcaps that you imported and scanned, or Pcaps generated by Wireshark that you chose to scan with Suricata.

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Note: it is important to watch the size of your main Suricata file, located at:

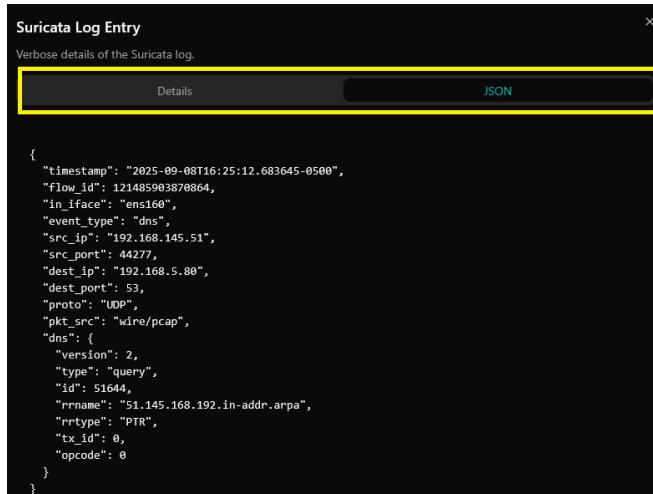
/usr/local/var/log/suricata/eve.json

Consider employing methods such as logrotate to ensure the file remains at a reasonable size even if an extended scan is run.

Once you've selected a file, the results will appear in the events table:

Interface	Time	Flow ID	Event Type	Source IP	Source Port	Destination IP	Destination Port	Protocol	...
ens160	2025-09-08T16:25:12.6...	121485903870864	dns	192.168.145.51	44277	192.168.5.80	53	UDP	...
ens160	2025-09-08T16:25:12.6...	121485903870864	dns	192.168.145.51	44277	192.168.5.80	53	UDP	...
ens160	2025-09-08T16:25:13.1...	415297769999517	alert	192.168.107.68	55739	192.168.107.55	7680	TCP	...
ens160	2025-09-08T16:25:13.1...	283392720657030	dns	192.168.107.55	49314	192.168.5.80	53	UDP	...
ens160	2025-09-08T16:25:13.1...	283392720657030	dns	192.168.107.55	49314	192.168.5.80	53	UDP	...
ens160	2025-09-08T16:25:13.5...	308899289390972	alert	192.168.107.55	53706	192.168.106.8	7680	TCP	...
ens160	2025-09-08T16:25:14.7...	737966614306082	http	10.20.30.3	51839	192.168.145.50	80	TCP	...
ens160	2025-09-08T16:25:15.0...	978103741696759	snmp	192.168.0.41	54334	192.168.105.163	161	UDP	...
ens160	2025-09-08T16:25:15.0...	978103741696759	snmp	192.168.105.163	161	192.168.0.41	54334	UDP	...

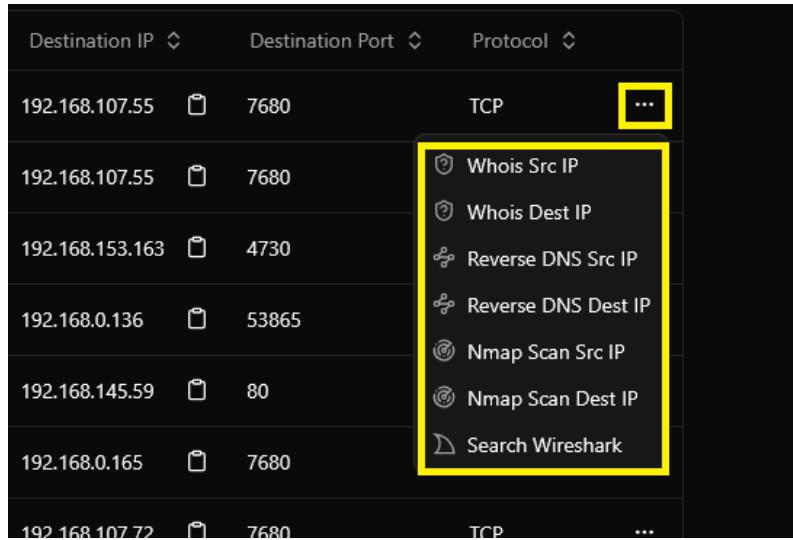
Click on an entry in the table to see complete details, either as text in the **Details** section, or as **JSON**:



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Further Event Actions

It is also possible to run a Whois, Reverse DNS lookup, [Nmap](#) Scan of the Source and Destination IP, or run a Wireshark Search of each entry in the table. Click the **Actions** icon on the far right of any entry to choose one of these options:

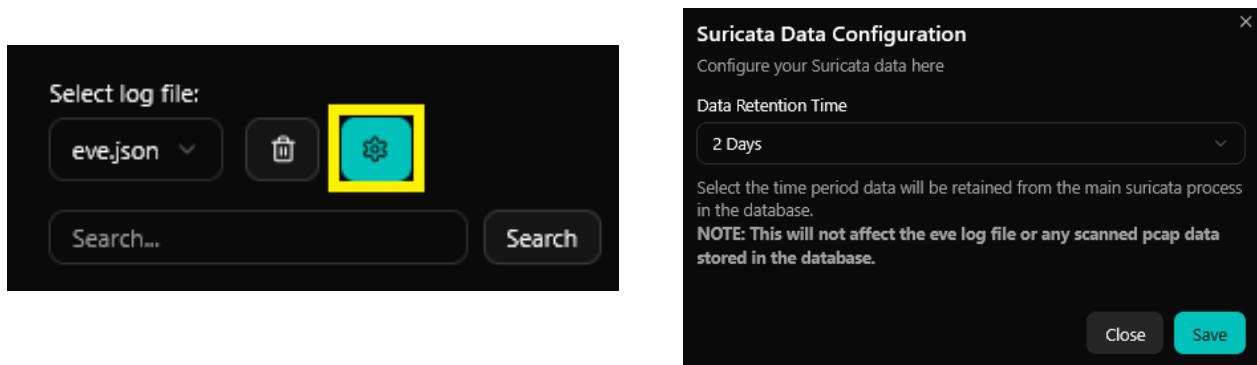


A screenshot of the Nagios Network Analyzer interface. A table displays network events. The last row of the table has a 'Protocol' column value of 'TCP' and a '...' button. A context menu is open at this button, listing the following options: 'Whois Src IP', 'Whois Dest IP', 'Reverse DNS Src IP', 'Reverse DNS Dest IP', 'Nmap Scan Src IP', 'Nmap Scan Dest IP', and 'Search Wireshark'. The entire context menu is highlighted with a yellow box.

Destination IP	Destination Port	Protocol	...
192.168.107.55	7680	TCP	...
192.168.107.55	7680		...
192.168.153.163	4730		...
192.168.0.136	53865		...
192.168.145.59	80		...
192.168.0.165	7680		...
192.168.107.72	7680	TCP	...

Suricata Data Configuration

To customize how long data from the main Suricata process will be retained in the database, click the gear icon to the right of the Select log file dropdown, select a Data Retention Time, then click **Save**.



The image shows two parts of the Nagios Network Analyzer interface. On the left, the main search interface has a 'Select log file:' dropdown set to 'eve.json', a trash icon, and a gear icon (highlighted with a yellow box). Below are 'Search...' and 'Search' buttons. On the right, a 'Suricata Data Configuration' dialog is open. It contains a 'Data Retention Time' dropdown set to '2 Days', a note about retaining data from the main Suricata process, and a note stating that this will not affect the 'eve.json' log file or scanned PCAP data. At the bottom are 'Close' and 'Save' buttons.

This setting will not affect the `eve.json` log file itself, or any scanned PCAP data stored in the database. It is specifically related to Suricata scan data that is stored in the database, such as the IP addresses and ports in scanned packets.

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Modify Rules Tab

Here you can add ruleset files and view, edit, and delete individual Suricata rules. Rules define specific patterns and behaviors that indicate potential threats, and can be customized to meet your unique requirements and policies.

By default the `suricata.rules` file will be present. After initial Network Analyzer installation it will include the rules from the `et/open` Ruleset, which is automatically enabled. As new rulesets are enabled in **Manage Rulesets**, they will be added to the list in the **Modify Rules** tab. Keep in mind that the rules shown in the **Modify Rules** tab update based on the **Update Frequency** defined for the corresponding rulesets (either defined in the Ruleset files added in **Modify Rules**, or using the setting for Rulesets managed in the **Manage Rulesets** tab). Included Rulesets are set to **1 day** by default.

Adding Rules

There are three ways to add rules to the list. The first is to enable a ruleset in the [Manage Rulesets](#) tab. Each individual rule in your enabled rulesets will appear in the **Modify Rules** list to be individually customized and enabled/disabled.

The second option is to upload a rules file here in **Modify Rules**, using the **Upload Ruleset** button.

The third is to click the **+ Add Rule** button to the right of the **Upload Ruleset** button. This enables you to define and add single custom rules.

The screenshot shows the Nagios Network Analyzer interface with the 'Modify Rules' tab selected. On the left, the main panel displays a list of rulesets, with 'suricata.rules' selected. Below this is a search bar and a table with columns for SID, Action, and Protocol. A single rule is selected, showing details like '2260000', 'alert', and 'ip'. On the right, a modal dialog titled 'Add Rule' is open, prompting for a new Suricata rule. It includes fields for Action (dropdown), Protocol (dropdown), Source (IP Address: Port), Destination (IP Address: Port), Direction (dropdown), Rule Options (msg, sid), and Enabled (checkbox checked). At the bottom of the dialog are 'Submit' and a '+' button. To the right of the dialog, the main rules list is shown, featuring a table with columns for Destination Port, Status, and a toggle switch. The 'Upload Ruleset' and '+ Add Rule' buttons are highlighted with a yellow box. The bottom right of the main panel shows pagination controls (10, <<, <, >, >>) and a page indicator '1 of 6177'.

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Selecting a Rule File

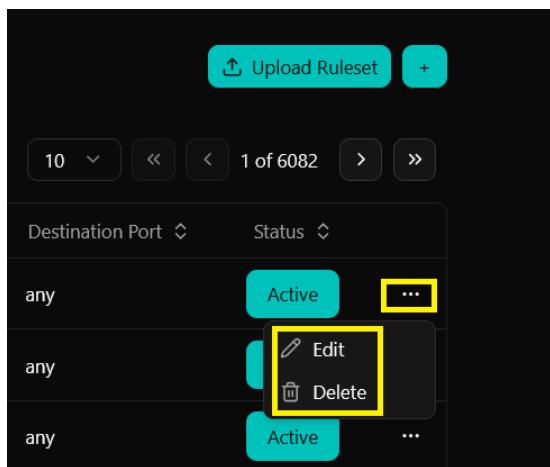
Use the **Select rule file** dropdown to select a different rules file:



Editing or Deleting a Rule

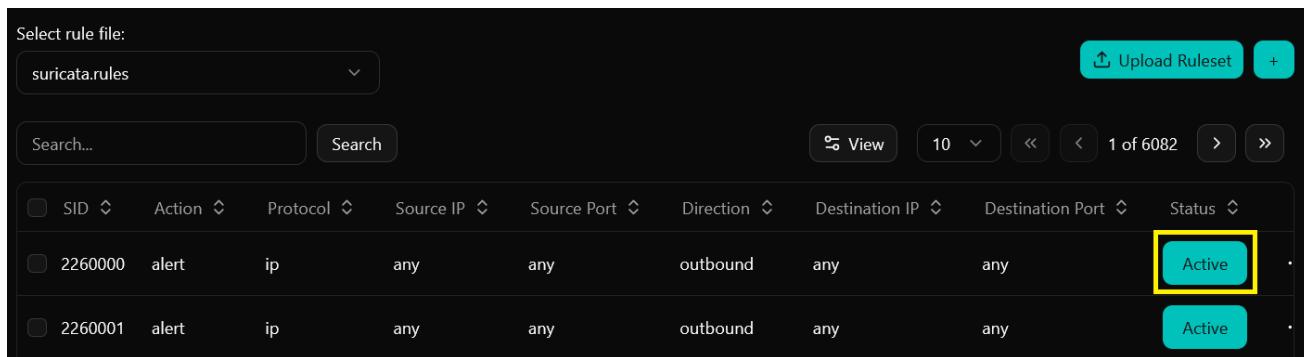
To edit a rule, click the Actions icon to the far right in the table, and select **Edit**.

To delete a rule, click the Actions icon to the far right in the table, and select **Delete**.



Activating and Deactivating a Rule

To activate or deactivate a rule, use the **Active/Inactive** button in the **Status** column on the right:



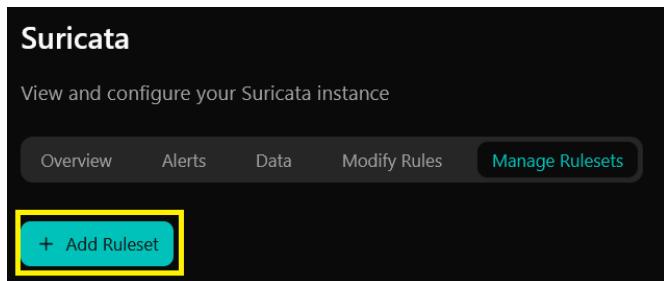
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Manage Rulesets Tab

Here you can add, edit, delete, and enable/disable rulesets.

Adding a Ruleset

To add a ruleset, click the **+ Add Ruleset** button...



...then define the ruleset identification, connection, and authentication details, and click **Submit**.

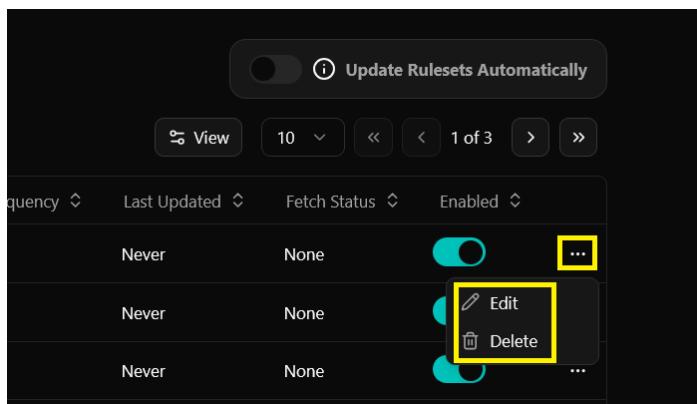
A screenshot of the 'Add Ruleset' dialog box. The dialog has a dark background with white text and input fields. The 'Name' field is populated with 'details'. The 'Description' and 'URL' fields are empty. The 'Secret Code Required' checkbox is unchecked. The 'Secret Code' field is empty. The 'Update Frequency' dropdown is set to 'Select frequency'. The 'Enabled' checkbox is unchecked. At the bottom, there are 'Cancel' and 'Submit' buttons, with the 'Submit' button highlighted with a yellow box.

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Editing and Deleting Rulesets

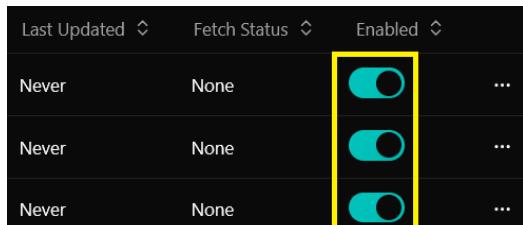
To edit a ruleset, click the Actions icon, and select **Edit**.

To delete a ruleset, click the Actions icon, and select **Delete**.



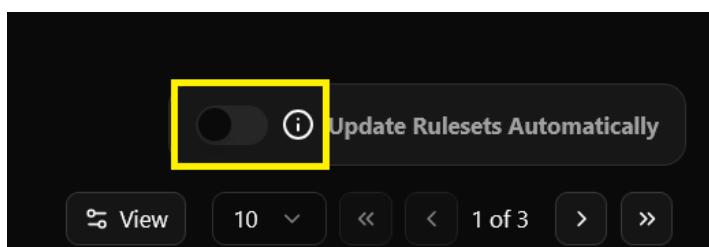
Enabling and Disabling Rulesets

Use the toggle in the Enabled column on the far right of an entry to enable or disable a ruleset:



Updating Rulesets Automatically

Use the **Update Rules Automatically** toggle to automatically pull updates for your rulesets.



Note: If this is enabled, changes you have made to individual rules in the **Modify Rules** tab (eg editing or deleting them) will be overwritten when their corresponding ruleset is auto-updated.

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Installation Commands

On the following pages, you will find the installation commands initially shown in the user interface.

Be sure to use the commands that match your Network Analyzer server OS (in the UI, the commands shown are automatically based on your OS).

Note that some commands span multiple lines, and include a \ (line continuation character). For best results, copy and paste the entire batch of commands at once into your terminal.

Click your OS to access the commands:

[\[RHEL\]](#)

[\[CentOS\]](#)

[\[Oracle\]](#)

[\[Debian/Ubuntu\]](#)

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RHEL

```
cd /tmp
wget https://www.openinfosecfoundation.org/download/suricata-7.0.11.tar.gz
tar xzvf suricata-7.0.11.tar.gz
cd suricata-7.0.11

# Update package list and install dependencies
sudo dnf -y update
sudo dnf -y install ${rhelRPM:-\
https://dl.fedoraproject.org/pub/epel/epel-release-latest-$(rpm -E %{rhel}).noarch.rpm}
sudo dnf -y install pcre2-devel
sudo dnf -y install libyaml-devel
sudo dnf -y install jansson-devel
sudo dnf -y install libpcap-devel
sudo dnf -y install rustc cargo
sudo dnf -y install libcap-ng-devel
sudo dnf -y install libunwind-devel
sudo dnf -y install file-devel
sudo dnf -y install lz4-devel

# Configure, build, and install Suricata
./configure
sudo make
sudo make install-full
sudo ldconfig
sudo /usr/local/bin/suricata-update update-sources

# Permissions for NNA to use Suricata
sudo chown -R nna:nnacmd /usr/local/var/log/suricata
sudo chmod -R 770 /usr/local/var/log/suricata

sudo chmod 644 /usr/local/etc/suricata/suricata.yaml

sudo chown -R nna:nnacmd /usr/local/var/lib/suricata
sudo chmod -R 775 /usr/local/var/lib/suricata

sudo chown -R nna:nnacmd /usr/local/var/lib/suricata/rules
sudo chmod -R 2775 /usr/local/var/lib/suricata/rules

sudo chown -R root:nnacmd /usr/local/etc/suricata
sudo chmod -R 770 /usr/local/etc/suricata/suricata.yaml
sudo chmod -R 770 /usr/local/etc/suricata
sudo chmod 640 /usr/local/etc/suricata/*.config

sudo setcap cap_net_admin,cap_net_raw=eip /usr/local/bin/suricata
```

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CentOS

```
cd /tmp
wget https://www.openinfosecfoundation.org/download/suricata-7.0.11.tar.gz
tar xzvf suricata-7.0.11.tar.gz
cd suricata-7.0.11

# Update package list and install dependencies
sudo dnf -y update
sudo dnf config-manager --set-enabled crb
sudo dnf -y install epel-release
sudo dnf -y install pcre2-devel
sudo dnf -y install libyaml-devel
sudo dnf -y install jansson-devel
sudo dnf -y install libpcap-devel
sudo dnf -y install rustc cargo
sudo dnf -y install libcap-ng-devel
sudo dnf -y install libunwind-devel
sudo dnf -y install file-devel
sudo dnf -y install lz4-devel
sudo dnf -y install zlib-devel
sudo pip install pyyaml

# Configure, build, and install Suricata
./configure
sudo make
sudo make install-full
sudo ldconfig
sudo /usr/local/bin/suricata-update update-sources

# Permissions for NNA to use Suricata
sudo chown -R nna:nnacmd /usr/local/var/log/suricata
sudo chmod -R 770 /usr/local/var/log/suricata

sudo chmod 644 /usr/local/etc/suricata/suricata.yaml

sudo chown -R nna:nnacmd /usr/local/var/lib/suricata
sudo chmod -R 775 /usr/local/var/lib/suricata

sudo chown -R nna:nnacmd /usr/local/var/lib/suricata/rules
sudo chmod -R 2775 /usr/local/var/lib/suricata/rules

sudo chown -R root:nnacmd /usr/local/etc/suricata
sudo chmod -R 770 /usr/local/etc/suricata/suricata.yaml
sudo chmod -R 770 /usr/local/etc/suricata
sudo chmod 640 /usr/local/etc/suricata/*.config

sudo setcap cap_net_admin,cap_net_raw=eip /usr/local/bin/suricata
```

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Oracle

```
cd /tmp
wget https://www.openinfosecfoundation.org/download/suricata-7.0.11.tar.gz
tar xzvf suricata-7.0.11.tar.gz
cd suricata-7.0.11

# Update package list and install dependencies
sudo dnf -y update
sudo dnf -y install epel-release
sudo dnf -y install pcre2-devel
sudo dnf -y install libyaml-devel
sudo dnf -y install jansson-devel
sudo dnf -y install libpcap-devel
sudo dnf -y install rustc cargo
sudo dnf -y install libcap-ng-devel
sudo dnf -y install libunwind-devel
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sudo pip install pyyaml

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sudo chmod -R 775 /usr/local/var/lib/suricata

sudo chown -R nna:nnacmd /usr/local/var/lib/suricata/rules
sudo chmod -R 2775 /usr/local/var/lib/suricata/rules

sudo chown -R root:nnacmd /usr/local/etc/suricata
sudo chmod -R 770 /usr/local/etc/suricata/suricata.yaml
sudo chmod -R 770 /usr/local/etc/suricata
sudo chmod 640 /usr/local/etc/suricata/*.config

sudo setcap cap_net_admin,cap_net_raw=eip /usr/local/bin/suricata
```

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Debian | Ubuntu

```
cd /tmp
wget https://www.openinfosecfoundation.org/download/suricata-7.0.11.tar.gz
tar xzvf suricata-7.0.11.tar.gz
cd suricata-7.0.11

# Update package list and install dependencies
sudo apt -y update
sudo apt -y install autoconf automake build-essential cargo \
cbindgen libjansson-dev libpcap-dev libpcre2-dev libtool \
libyaml-dev make pkg-config rustc zlib1g-dev
sudo apt -y install libcap-ng-dev
sudo apt -y install libunwind-dev
sudo apt -y install libmagic-dev
sudo apt -y install liblz4-dev

# Configure, build, and install Suricata
./configure
sudo make
sudo make install-full
sudo ldconfig
sudo /usr/local/bin/suricata-update update-sources

# Permissions for NNA to use Suricata
sudo chown -R nna:nnacmd /usr/local/var/log/suricata
sudo chmod -R 770 /usr/local/var/log/suricata

sudo chmod 644 /usr/local/etc/suricata/suricata.yaml

sudo chown -R nna:nnacmd /usr/local/var/lib/suricata
sudo chmod -R 775 /usr/local/var/lib/suricata

sudo chown -R nna:nnacmd /usr/local/var/lib/suricata/rules
sudo chmod -R 2775 /usr/local/var/lib/suricata/rules

sudo chown -R root:nnacmd /usr/local/etc/suricata
sudo chmod -R 770 /usr/local/etc/suricata/suricata.yaml
sudo chmod -R 770 /usr/local/etc/suricata
sudo chmod 640 /usr/local/etc/suricata/*.config

sudo setcap cap_net_admin,cap_net_raw=eip /usr/local/bin/suricata
```

How To Use Suricata With Nagios Network Analyzer 2026

Finishing Up

This completes the documentation on how to use Suricata with Nagios Network Analyzer 2026. If you have additional questions or other support-related questions, please visit us at our Nagios Support Forum, Nagios Knowledge Base, or Nagios Library:

[Visit Nagios Support Forum](#)

[Visit Nagios Knowledge Base](#)

[Visit Nagios Library](#)