

Investigating Alerts

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Investigating Alerts

The Alerts user interface frequently produces large amounts of data. You can use features of the Alerts UI to refine and investigate the alert information to identify malicious events.

Filter Alerts

The first Alerts UI feature you can use to focus your data is **Filters**. You can use **Filters** to choose the type of data you are viewing.

Procedure

1. In the **Filters** panel on the left of the window, click the Bro filter.

The central panel of the Alerts UI displays all of the Bro data it has received.



Note:

Next to the Bro filter, the UI displays the total number of Bro alerts.

The screenshot shows the Metron Alerts interface. On the left, the 'Filters' panel is open, showing 'source.type: bro' selected. The main area displays a table of alerts with columns for source, alert status, IP addresses, and protocols. The table is filtered to show only 'bro' alerts from the source IP 95.163.121.204.

Source #	Timestamp #	source.type #	alert_status #	ip_dst_addr #	ip_dst_port #	ip_src_addr #	ip_src_port #	protocol #	ip_alert #
1	2017-11-17 18:08:25	bro	NEW	95.163.121.204	80	49205		http	49205
2	2017-11-17 18:08:25	bro	NEW	95.163.121.204	80	49210		http	49210
3	2017-11-17 18:08:21	bro	NEW	95.163.121.204	80	49209		http	49209
4	2017-11-17 18:08:16	bro	NEW	95.163.121.204	80	49207		http	49207
5	2017-11-17 18:08:13	bro	NEW	95.163.121.204	80	49208		http	49208
6	2017-11-17 18:08:12	bro	NEW	95.163.121.204	80	49210		http	49210
7	2017-11-17 18:08:12	bro	NEW	95.163.121.204	80	49205		http	49205
8	2017-11-17 18:08:12	bro	NEW	95.163.121.204	80	49206		http	49206
9	2017-11-17 18:08:12	bro	NEW	95.163.121.204	80	49209		http	49209
10	2017-11-17 18:08:12	bro	NEW	95.163.121.204	80	49208		http	49208
11	2017-11-17 18:08:12	bro	NEW	95.163.121.204	80	49207		http	49207
12	2017-11-17 18:08:12	bro	NEW	95.163.121.204	80	49210		http	49210
13	2017-11-17 18:08:11	bro	NEW	95.163.121.204	80	49206		http	49206
14	2017-11-17 18:08:11	bro	NEW	95.163.121.204	80	49205		http	49205
15	2017-11-17 18:08:10	bro	NEW	95.163.121.204	80	49206		http	49206
16	2017-11-17 18:08:07	bro	NEW	95.163.121.204	80	49205		http	49205
17	2017-11-17 18:08:07	bro	NEW	192.168.138.2	53	50329		dns	50329
18	2017-11-17 18:07:41	bro	NEW	72.34.49.86	80	49204		http	49204
19	2017-11-17 18:07:40	bro	NEW	204.182.254.221	80	49203		http	49203
20	2017-11-17 18:07:34	bro	NEW	72.34.49.86	80	49202		http	49202
21	2017-11-17 18:07:34	bro	NEW	204.182.254.221	80	49201		http	49201

2. You can continue to apply filters to the alerts displayed in the **Alerts** window to further refine the alerts list.

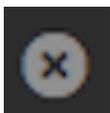
As you select filters and facets, they are displayed in the **Searches** field.

For example, in the following figure, we've applied the source.type filter with the bro facet and then the ip_dst_addr filter with the IP address 95.163.121.204.

The screenshot shows the Metron Alerts interface. At the top, there is a search bar with the query: `source: type: bro AND ip_dst_addr: 95.163.121.204`. Below the search bar, there are filters for `enrichment: country`, `host`, `ip_dst_addr`, and `source: type`. The 'Group By' section is set to `enrichment: country`. The main table displays a list of alerts with columns for Score, ID, timestamp, source: type, ip_dst_addr, enrichment: country, host, ip_dst_addr, and alert: status. The alerts are grouped by country (RU).

Score	ID	timestamp	source: type	ip_dst_addr	enrichment: country	host	ip_dst_addr	alert: status
829e239e-6...	a51e60bdee	2017-08-31 11:47:55	bro	192.168.138.158	RU	95.163.121.204	7ogranznewm...payfun.com	ESCALATE
06af55c9-9...	346c1f9525	2017-08-31 11:47:55	bro	192.168.138.158	RU	95.163.121.204	7ogranznewm...payfun.com	DISMISS
1367909a-0...	a9993696b5	2017-08-31 11:47:55	bro	192.168.138.158	RU	95.163.121.204	7ogranznewm...payfun.com	NEW
1e316227-0...	2132c0ea69	2017-08-31 11:47:55	bro	192.168.138.158	RU	95.163.121.204	7ogranznewm...payfun.com	NEW
3993c18f-c...	d79c95a056	2017-08-31 11:47:55	bro	192.168.138.158	RU	95.163.121.204	7ogranznewm...payfun.com	NEW
679466e8-6...	219489106d	2017-08-31 11:47:56	bro	192.168.138.158	RU	95.163.121.204	7ogranznewm...payfun.com	NEW
9d96e07f-1...	999e074e6	2017-08-31 11:47:56	bro	192.168.138.158	RU	95.163.121.204	7ogranznewm...payfun.com	NEW
8992e07f-4...	f56d0caf19	2017-08-31 11:47:56	bro	192.168.138.158	RU	95.163.121.204	7ogranznewm...payfun.com	NEW
5d7a3964-7...	eead99326f	2017-08-31 11:47:56	bro	192.168.138.158	RU	95.163.121.204	7ogranznewm...payfun.com	NEW
4c31676e-9...	63d9f535d8	2017-08-31 11:47:56	bro	192.168.138.158	RU	95.163.121.204	7ogranznewm...payfun.com	NEW
767202af-c...	ac586fc5b9	2017-08-31 11:47:56	bro	192.168.138.158	RU	95.163.121.204	7ogranznewm...payfun.com	NEW
766866ff-9...	3a54355cb1	2017-08-31 11:47:56	bro	192.168.138.158	RU	95.163.121.204	7ogranznewm...payfun.com	NEW
e4287492-8...	074f1a64e1	2017-08-31 11:47:56	bro	192.168.138.158	RU	95.163.121.204	7ogranznewm...payfun.com	NEW
196a7d54-8...	1805d0d6d4	2017-08-31 11:47:56	bro	192.168.138.158	RU	95.163.121.204	7ogranznewm...payfun.com	NEW
34f093f-6...	29a0f03e19	2017-08-31 11:46:32	bro	192.168.138.158	RU	95.163.121.204	7ogranznewm...payfun.com	NEW
382de09f-4...	90e0d38c5	2017-08-31 11:46:32	bro	192.168.138.158	RU	95.163.121.204	7ogranznewm...payfun.com	NEW
ac2b5440-9...	12054eadd	2017-08-31 11:46:32	bro	192.168.138.158	RU	95.163.121.204	7ogranznewm...payfun.com	NEW
14e9a2f-0...	41ca12852f	2017-08-31 11:46:12	bro	192.168.138.158	RU	95.163.121.204	7ogranznewm...payfun.com	NEW
87e17519-8...	7474c32e59	2017-08-31 11:46:12	bro	192.168.138.158	RU	95.163.121.204	7ogranznewm...payfun.com	NEW
0ee030ed-e...	52b99a497e	2017-08-31 11:46:08	bro	192.168.138.158	RU	95.163.121.204	7ogranznewm...payfun.com	NEW
72a503ee-b...	f79670b128	2017-08-31 11:46:08	bro	192.168.138.158	RU	95.163.121.204	7ogranznewm...payfun.com	NEW
ade15aea-1...	f92234571	2017-08-31 11:46:03	bro	192.168.138.158	RU	95.163.121.204	7ogranznewm...payfun.com	NEW
e7262458-e...	294771c6d3	2017-08-31 11:46:03	bro	192.168.138.158	RU	95.163.121.204	7ogranznewm...payfun.com	NEW
3a6b9374-e...	3a6b38b6d4	2017-08-31 11:46:03	bro	192.168.138.158	RU	95.163.121.204	7ogranznewm...payfun.com	NEW
e03ee43b-a...	4ff6e9d9fc	2017-08-31 11:46:03	bro	192.168.138.158	RU	95.163.121.204	7ogranznewm...payfun.com	NEW

- To clear filters that have been populated to the **Searches** field, click



(delete icon) at the end of the **Searches** field.

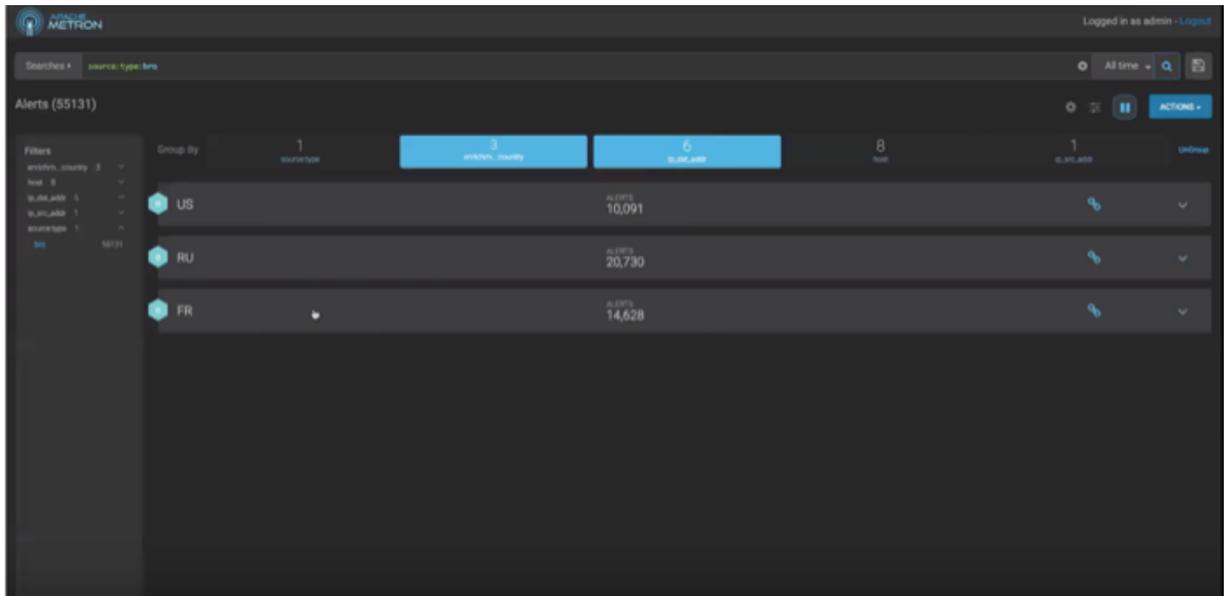
Group Alerts

Frequently, there are a large number of alerts contained in each of the **Filters**. To further refine the alert data, you can use the **Group By** feature. In addition to limiting the type of data you are viewing, you can apply searches, status, etc. to all the alerts in a group at the same time.

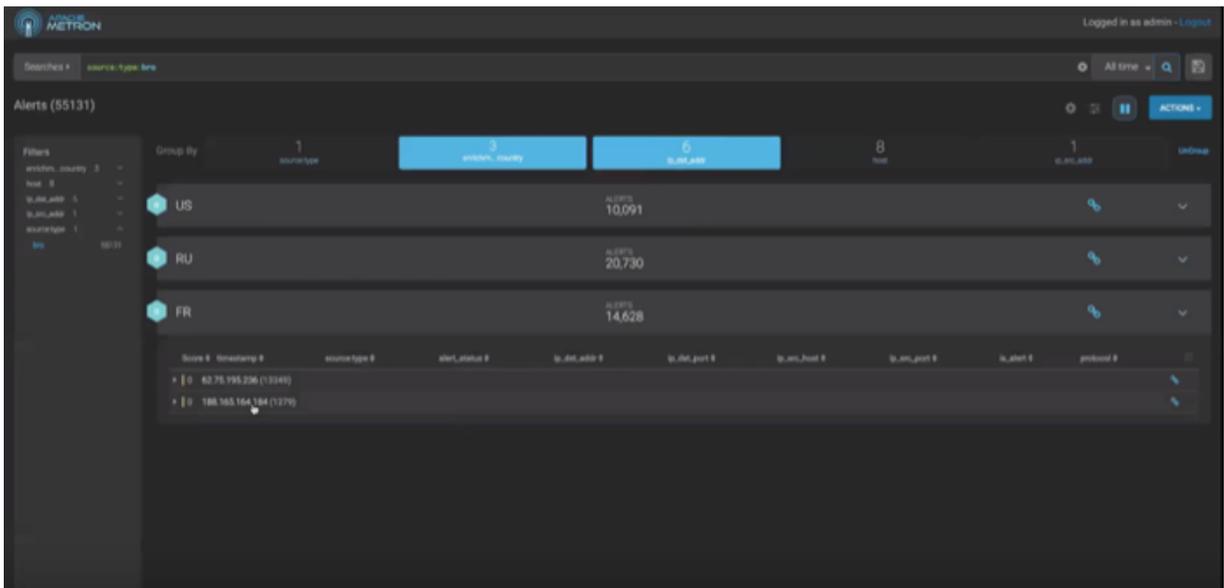
Procedure

- Click **enrichment:country** in the **Group By** section at the top of the UI to group your Bro filtered data by country.

In the following example, you can see that the alerts are now grouped into three countries: US, RU, and FR.



2. Click on the FR (France) group to see the IP addresses listed for the country:



3. You can click on the IP addresses to display Bro alerts for a specific host:

The screenshot shows the Palo Alto Networks Alerts management interface. At the top, it displays 'Alerts (55150)' and a search bar. Below the search bar, there are filter options and a 'Group By' section with buttons for 'source_ip', 'source_ip:country', 'source_ip:asn', and 'source_ip:asn:country'. The main area shows a tree view of alerts grouped by country: US (20,182 alerts), RU (41,494 alerts), and FR (42,607 alerts). Below this, a table displays individual alert details with columns for source IP, source type, alert status, destination IP, destination port, destination protocol, and protocol.

Source IP	Source Type	Alert Status	Dest. IP	Dest. Port	Dest. Protocol	Protocol
62.75.195.236 (1/3349)	src	NEW	62.75.195.236	80	49184	http
192.168.138.158 (1/3349)	src	NEW	62.75.195.236	80	49185	http
188.165.164.184 (1/336)	src	NEW	62.75.195.236	80	49186	http
192.168.138.158 (1/4629)	src	NEW	62.75.195.236	80	49192	http
2017-11-06 23:05:45	src	NEW	62.75.195.236	80	49193	http
2017-11-06 23:05:46	src	NEW	62.75.195.236	80	49185	http
2017-11-06 23:05:41	src	NEW	62.75.195.236	80	49186	http
2017-11-06 23:05:50	src	NEW	62.75.195.236	80	49192	http
2017-11-06 23:05:51	src	NEW	62.75.195.236	80	49193	http

- You can apply search parameters to the grouped information to display more granular information.

Create Meta Groups

Another way you can group filtered alerts is by creating meta alerts. This enables you to deal with the group as a single instance. You can create meta alerts at any of the various levels of groups.

Procedure

- Select a groups of alerts on which you want to focus, then click

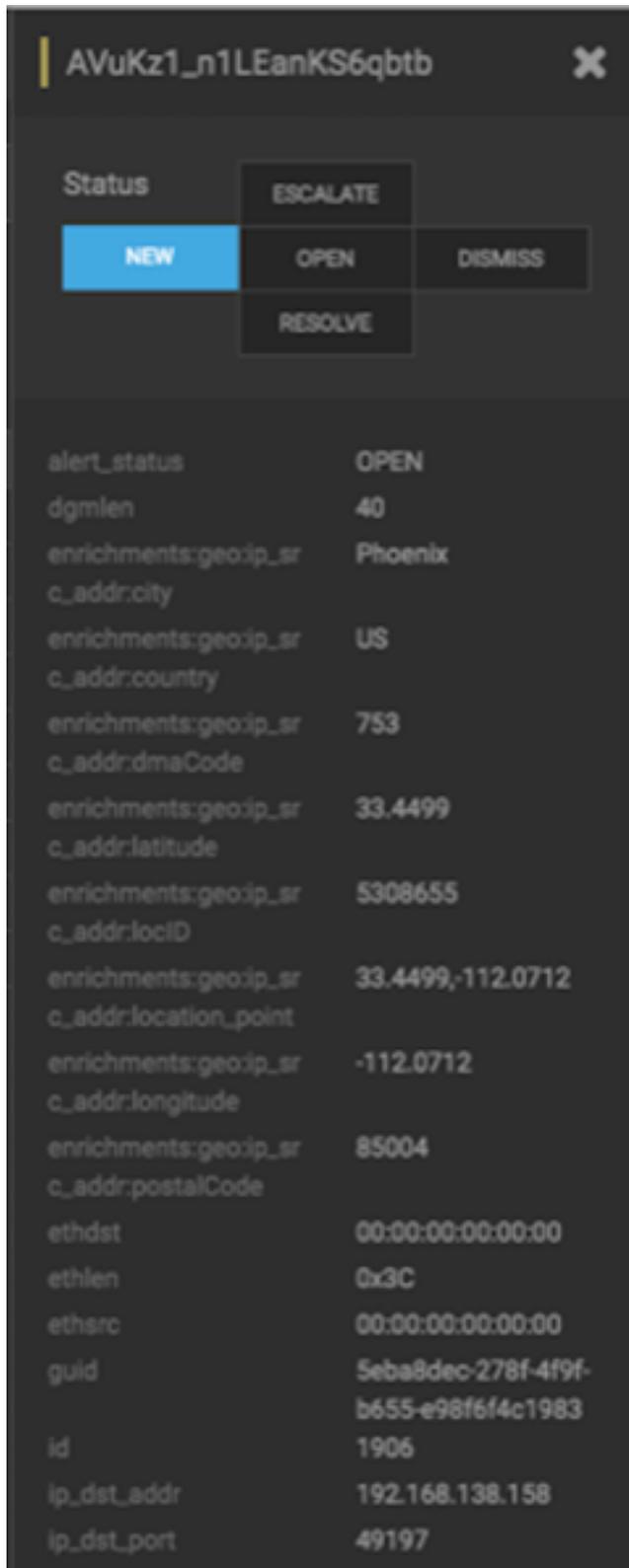


(meta alert icon) and confirm that you wish to create a meta alert.

The meta alert disappears from the tree view. You can still see the meta alert in the alerts table view.

- You can rename your meta alert by completing the following steps:
 - Display the Alerts UI display panel by clicking on empty space in the meta alert row.

Alerts Information Panel



The screenshot shows a meta alert panel with the following details:

Status	ESCALATE	DISMISS
NEW	OPEN	
	RESOLVE	

alert_status	OPEN
dgmlen	40
enrichments:geo:ip_sr c_addr:city	Phoenix
enrichments:geo:ip_sr c_addr:country	US
enrichments:geo:ip_sr c_addr:dmaCode	753
enrichments:geo:ip_sr c_addr:latitude	33.4499
enrichments:geo:ip_sr c_addr:locID	5308655
enrichments:geo:ip_sr c_addr:location_point	33.4499,-112.0712
enrichments:geo:ip_sr c_addr:longitude	-112.0712
enrichments:geo:ip_sr c_addr:postalCode	85004
ethdst	00:00:00:00:00:00
ethlen	0x3C
ethsrc	00:00:00:00:00:00
guid	Seba8dec-278f-4f9f- b655-e98f6f4c1983
id	1906
ip_dst_addr	192.168.138.158
ip_dst_port	49197

- b) Click the current meta alert name at the top of the panel and enter your new meta alert name.
- c) Dismiss the panel by clicking the X in the upper right corner of the panel.

Escalating Alerts

You can escalate one or more alerts at a time to create an event that can be tracked by an external ticketing system.

Procedure

1. Select an alert by clicking on empty space in the alert row.

The Alerts UI displays a panel listing the status of the alert all available data in Elasticsearch about the alert.

AVuKz1_n1LEanKS6qbtb
✕

Status	ESCALATE	
	NEW	DISMISS
	OPEN	
	RESOLVE	

alert_status	OPEN
dgmlen	40
enrichments:geo:ip_sr c_addr:city	Phoenix
enrichments:geo:ip_sr c_addr:country	US
enrichments:geo:ip_sr c_addr:dmaCode	753
enrichments:geo:ip_sr c_addr:latitude	33.4499
enrichments:geo:ip_sr c_addr:locID	5308655
enrichments:geo:ip_sr c_addr:location_point	33.4499,-112.0712
enrichments:geo:ip_sr c_addr:longitude	-112.0712
enrichments:geo:ip_sr c_addr:postalCode	85004
ethdst	00:00:00:00:00:00
ethlen	0x3C
ethsrc	00:00:00:00:00:00
guid	5eba8dec-278f-4f9f- b655-e98f6f4c1983
id	1906
ip_dst_addr	192.168.138.158
ip_dst_port	49197

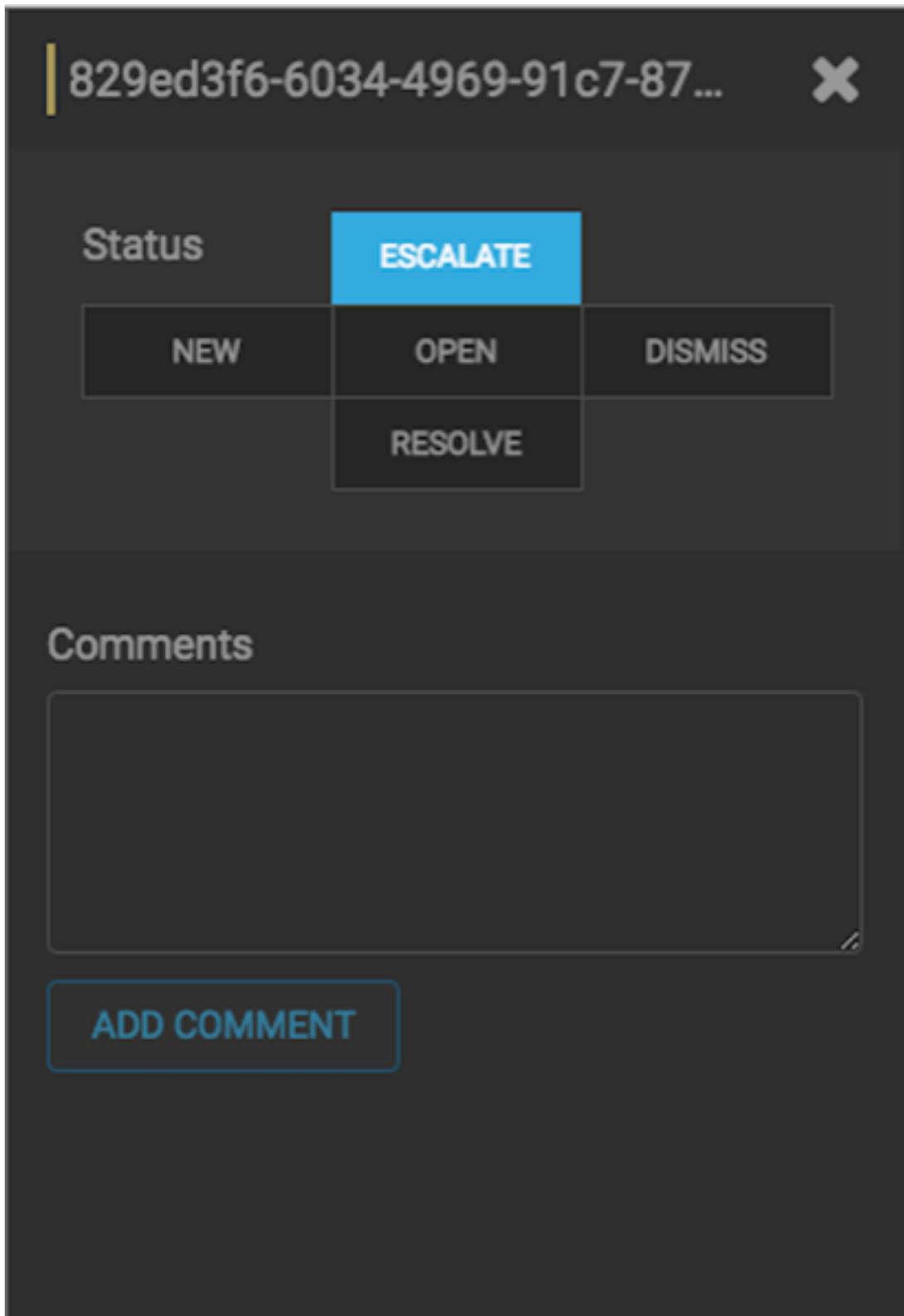
The current alert status is highlighted.



Note:

To manage more than one alert at a time, click the check boxes at the end of alert rows, then select the action you want to perform from the ACTIONS menu.

2. Click **Escalate**.



HCP writes the event to a Kafka escalation topic. An external orchestration software can pick up the event from the topic and use the API to create an incident or append to an existing incident.

3. You can also add a comment to this action by clicking



(Comment button), entering your comment in the **Comments** field, and clicking **ADD COMMENT**.