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**Open**







The underlying type of this field must be supported by the specified aggregation type. Some rules and alerts require additional options, which also go in the top level of the rule configuration file. For example, to only comment on 'Open' tickets - and thus not 'In Progress', 'Analyzing', 'Resolved', etc. Optional: email from field: Use a field from the document that triggered the alert as the recipient. Print out debug alerts or trigger real alerts. It defaults to one minute, which means that if ElastAlert is run over a large time period which triggers many matches, only the first alert will be sent by default. This defines a filter for the match bucket, which should match a subset of the documents returned by the main query filter. hipchat\_proxy: By default ElastAlert will not use a network proxy to send notifications to HipChat. The account file is also yaml formatted and must contain two fields: user: The username. This means that if a new term appears but there are at least 50 terms which appear more frequently, it will not be found. The file should be a single list containing objects, rather than objects on separate lines. Optional: pipe\_match\_json: If true, the match will be converted to JSON and passed to stdin of the command. If this is used, you may only specify a single field, and must also set query\_key to that field. opsgenie\_tags: A list of tags for this alert. You can use 'info' if you want the messages to be black instead of red. es\_host: The hostname of the Elasticsearch cluster the rule will use to query. Note that this does not support filtering by query key like Kibana 3. (Optional, string, no default) es\_send\_get\_body\_as: Method for querying Elasticsearch. Default is true. It can: Check that the configuration file loaded successfully. Defaults to True if http\_post payload is not specified, otherwise False. This may catch invalid YAML and missing or misconfigured fields. There are several ways to format the body text of the various types of events. 'Both' will match either. Example usage: jira\_bump\_not\_in\_statuses: - Resolved - Closed jira\_bump\_in\_statuses: If jira\_bump\_tickets is true, a list of statuses the ticket must be in for ElastAlert to comment on the ticket instead of opening a new one. stomp\_login: The STOMP login to use, defaults to admin. Example usage: alert: hivealerter hive\_connection: hive\_host: hive\_port: hive\_apikey: hive\_proxies: http: " https: " hive\_alert\_config: title: 'Title' ## This will default to {ruleindex|rule{name}} if not provided type: 'external' source: 'elastalert' description: '{match[field1]} {rule{name}}' sample\_description' severity: 2 tags: ['tag1', 'tag2 {rule{name}}'] tip: 3 status: 'New' follow: True hive\_observable\_data\_mapping: - domain: "{match[field1]} {rule{name}}" - domain: "{match[field1]}" - ip: "{match[ field1]}" Zabbix will send notification to a Zabbix server. (Optional, int, default 2) category: This value will be used to identify the category of the alert. This means that running elastalert over past events will result in different alerts than if elastalert had been running while those events occurred. ElastAlert will query Elasticsearch using the format {'filter': {'bool': {'must': [config.filter]}}} with an additional timestamp range filter. This is useful to monitor for example a temperature sensor and raise an alarm if the temperature grows too fast. glitter\_proxy: By default ElastAlert will not use a network proxy to send notifications to Gitter. For selecting more specific time ranges, you must run ElastAlert itself and use --start and --end. This field must be present in all of the events that are checked. Gitter alert will send a notification to a predefined Gitter channel. Alert name will arrive as sms once this option is chosen. The body of the notification is formatted the same as with other alerters. short\_description: The ServiceNow password to access the api. We will call this two windows "reference" and "current". Default is 30 days. When the new-style format is used, fields are accessed using {field.name}. Used in conjunction with query\_key, this will only consider terms which in their last buffer time had at least min\_doc\_count records. bcc: This adds the BCC emails to the list of recipients but does not show up in the email message. ElastAlert Examples of several types of rule configuration can be found in the example rules folder. To do so, you can either run ElastAlert in debug mode, or use elastalert-test-rule, which is a script that makes various aspects of testing easier. MS Teams alerter will send a notification to a predefined Microsoft Teams channel. jira\_project: The project to open the ticket under. This rule requires three additional options: spike\_height: The ratio of number of events in the last timeframe to the previous timeframe that when hit will trigger an alert. opsgenie\_recipients\_args: Map of arguments used to format opsgenie\_recipients. You can optionally add a domain suffix to the field to generate the address using email\_add\_domain. It uses two sliding windows to compare the current and reference frequency of events. This option allows you to specify the start time for the generated kibana4 dashboard. (Required, string, no default) name: The name of the rule. For example, if you index logstash-%Y.%m.%d, the query url will be similar to elasticsearch.example.com/logstash-2015.02.03/... alerta\_resource: Defaults to "elastalert". jira\_watchers: A list of user names to add as watchers on a JIRA ticket. Optional: use\_count\_query: If true, ElastAlert will poll Elasticsearch using the count api, and not download all of the matching documents. cmdb\_ci: The configuration item to attach the incident to. Default is us-east-1-profile: The AWS profile to use. If this is set to true, ElastAlert will "forget" about the query key value that triggers an alert, therefore preventing any more alerts for it until it's seen again. pagerduty\_event\_type: Any of the following: trigger, resolve, or acknowledge. Optional: opsgenie\_account: The OpsGenie account to integrate with. --formatted-output: Output results in formatted JSON. This rule requires one additional option: fields: A list of fields to monitor for new terms. For example, if your match was {"data": {"ips": ["127.0.0.1", "12.34.56.78"]}}, then by using "data.ips[1]" in alert text args, it would replace value with "12.34.56.78". If set to a unique string per rule PagerDuty will identify the incident that this event should be applied. pagerduty\_incident\_key: If not set PagerDuty will trigger a new incident for each alert sent. metrics - set this to 'Open'. stride\_cloud\_id: The site id associated with the Stride site you want to send the alert to. Default is 50. This must be one of 'min', 'max', 'avg', 'sum', 'cardinality', 'value count'. The compare key term must be in this list or else it will match. If using a scripted field via metric\_agg\_script, this is the name for your scripted field metric\_agg\_type: The type of metric aggregation to perform on the metric\_agg\_key field. (Optional, boolean, default false) query\_key: Having a query key means that realert time will be counted separately for each unique value of query key. (Optional, string, no default) use\_kibana4\_dashboard: A link to a Kibana 4 dashboard. The following options dictate the values of the API JSON payload: alerta\_severity: Defaults to "warning". hipchat\_from: When humans report to hipchat, a timestamp appears next to their name. It can be a single recipient or list of recipients. This can be changed by setting run\_enhancements first. The room ID will be the numeric part of the URL. Alert name along with the message body will be sent as an sms. Not using the quotation marks will trigger a YAML parse error. If not defined, VictorOps will assign a random string to each alert. Some rule types, such as spike and flatline require a minimum elapsed time before they begin alerting, based on their timeframe. Wildcards can be used here, such as: index: my-index-\* which will match my-index-2014-10-05. alerta\_tags: Defaults to an empty list. This rule requires one of the two following options: max\_cardinality: If the cardinality of the data is greater than this number, an alert will be triggered. See for more information. (Required, string, no default) The environment variable ES\_HOST will override this field. Each rule may have any number of alerts attached to it. index: The name of the index that will be searched. In the JIRA dropdown for priorities, 0 would represent the first priority, 1 the 2nd, etc. This can be overridden using alert\_on\_new\_data. min\_doc\_count: The minimum number of events in the current window needed for an alert to trigger. If there's already an open incident with a matching key, this event will be appended to that incident's log. (Optional, string, default "GET") use\_strftime\_index: If this is true, ElastAlert will format the index using datetime.strptime for each query. Use this option to change it (free text). zbx\_item: This field setup the item in the host that receives the value sent by Elastalert. See the section below on alert content for more details. Developers in India can use Exotel alerter, it will trigger an incident to a mobile phone as sms from your exophone. percentage\_match: This rule matches when the percentage of document in the match bucket within a calculation window is higher or lower than a threshold. GoogleChat alerter will send a notification to a predefined GoogleChat channel. --count-only: Only find the number of matching documents and list available fields. use\_count\_query: If true, ElastAlert will poll Elasticsearch using the count api, and not download all of the matching documents. Note When using use\_terms\_query, make sure that the field you are using is not analyzed. When using alert\_text\_args, you can access nested fields and index into arrays. Field values will contain every key value pair included in the results from Elasticsearch. The alerter requires the following option: mattermost\_webhook\_url: The webhook URL. Because ElastAlert uses an aggregation query to compute this, it will attempt to use the field name plus "\_raw" to count unanalyzed terms. Silence stashes will still be created before the enhancement runs, meaning even if a DropMatchException is raised, the rule will still be silenced. The SNS alerter uses boto3 and can use credentials in the rule yaml, in a standard AWS credential and config files, or via environment variables. cardinality field: Which field to count the cardinality for. aggregation: This option allows you to aggregate multiple matches together into one alert. Both of these are represented internally as if they came from \_source. Arguments to the command can use Python format string syntax to access parts of the match. This alert requires one additional option: email: An address or list of addresses to send the alert to. Stride alerter will send a notification to a predefined Stride room. (Optional, string) priority: This value will be used to identify the relative priority of the alert. This may be useful, for example, if you are using a flatline rule type with a large timeframe, and you want to be sure that if ElastAlert restarts, you can still get alerts. We will call these two windows "reference" and "current". This value is ignored if use\_count\_query or use\_terms\_query is true. If the field cannot be found, the email value will be used as a default. mattermost\_icon\_url\_override: By default ElastAlert will use the default webhook icon when posting to the channel. mattermost\_msg\_pretext: You can set the message attachment pretext using this option. stride\_proxy: By default ElastAlert will not use a network proxy to send notifications to Stride. See the section on metadata for more details. See jira\_bump\_tickets description above for an example. jira\_bump\_not\_in\_statuses: If jira\_bump\_tickets is true, a list of statuses the ticket must not be in for ElastAlert to comment on the ticket instead of opening a new one. Default is false. --save-json FILE: Save all documents downloaded to a file as JSON. Required: hive\_connection: The connection details as key-values. For example, if you wish to summarize the usernames and event\_types that appear in the documents so that you can see the most relevant fields at a quick glance, you can set: summary\_table\_fields: - my\_data.username - my\_data.event\_type Then, for the same sample data shown above listing alice and bob's events, Elastalert will provide the following summary table in its alert medium: +-----+ | my\_data.username | my\_data.event\_type | +-----+ | alice | login | +-----+ | bob | something | +-----+ Note By default, aggregation time is relative to the current system time, not the time of the match. The enhancements will be run after silence and realert is calculated and in the case of aggregated alerts, right before the alert is sent. Example usage using old-style format: alert: - command: ["bin/send\_alert", "--username", "%(usernames%)"] Warning Executing commands with untrusted data can make it vulnerable to shell injection! If you use formatted data in your command, it is highly recommended that you use a args list format instead of a shell string. blacklist: A list of blacklisted values, and/or a list of paths to flat files which contain the blacklisted values using - "file /path/to/file"; for example: blacklist: - value1 - value2 - "file /tmp/blacklist1.txt" - "file /tmp/blacklist2.txt" It is possible to mix between blacklist value definitions, or use either one. Defaults to false. es\_url\_prefix: URL prefix for the Elasticsearch endpoint. By default, all events that occur during an aggregation window are grouped together. alerta\_service: Defaults to "elastalert". exotel\_auth\_token: Auth token associated with your Exotel account. (Required, string or list, no default) import: If specified includes all the settings from this yaml file. Documents which are missing the query key will be grouped together. jira\_bump\_tickets: If true, ElastAlert search for existing tickets newer than jira\_max\_age and comment on the ticket with information about the alert instead of opening another ticket. query\_key: Counts of documents will be stored independently for each value of query key. Here is an example test run which triggered an alert: \$ elastalert-test-rule my\_rules/rule1.yaml Successfully Loaded Example rule1 Got 105 hits from the last 1 day Available terms in first hit: @timestamp field1 field2 ... mattermost\_msg\_color: By default the alert will be posted with the 'danger' color. The from, instead of a timestamp, defaults to empty unless set, which you can do here. Example usage using new-style format: alert: - command: ["bin/send\_alert", "--username", "%(match[username])"] This alert will send an email. The default is 1 day. (Optional, boolean, default False) The environment variable ES\_USE\_SSL will override this field. Alerta alerter will post an alert in the Alerta server instance through the alert API endpoint. This option should not be set if the jira\_bump\_in\_statuses option is set. twilio\_from\_number: Your twilio phone number from which message will be sent. There is also an optional field: timeframe: The maximum time between changes. The alerter requires the following options: ms\_teams\_webhook\_url: The webhook URL that includes your auth data and the ID of the channel you want to post to. If this limit is reached, a warning will be logged but ElastAlert will continue without downloading more results. The alerter requires the following option: glitter\_webhook\_url: The webhook URL that includes your auth data and the ID of the channel (room) you want to post to. The metric value will be calculated and evaluated against the threshold(s) for each segment. Possible values are P1, P2, P3, P4, P5. ie: "Alert for (clientip)". (Optional, string, no default) use\_ssl: Whether or not to connect to es\_host using TLS. Filters in imported alerts are merged (ANDed) with any filters in the rule. For example: Example usage: jira\_priority: Spriority\$ jira\_alert\_owner: Sowner\$ Line Notify will send notification to a Line application. A maximum of 10,000 documents will be downloaded. All of the results of querying with these filters are passed to the RuleType for analysis. If the time between alerts is less than twice realert, realert will double. ms\_teams\_proxy: By default ElastAlert will not use a network proxy to send notifications to MS Teams. password: The password. stride\_ignore\_ssl\_errors: Ignore TLS errors (self-signed certificates, etc.). This is useful if you care only about numbers and not the actual data. For example in an alert triggered with num\_events: 3, the 3rd event will trigger the alert on itself and the other 2 events in a key named related\_events that can be accessed in the alerter. If false, timestamps will be converted to UTC, which is what ElastAlert uses internally. For example, if realert: minutes: 10 and exponential\_realert\_hours: 1, an alerts fires at 1:00 and another at 1:15, the next alert will not be until at least 1:35. The filename can be an absolute path or relative to the rules directory. For example, if it's querying completely within 2018-06-28, it will actually use 2018-06-27,2018-06-28, whitelists: Similar to blacklist, this rule will compare a certain field to a whitelist, and match if the list does not contain the term. " timeframe: hours: 2 spike\_height: 2 spike\_type: up threshold\_ref: 5 hour1: 20 events (ref: 0, cur: 20) - No alert because (a) threshold\_ref not met, (b) ref window not filled hour2: 100 events (ref: 0, cur: 120) - No alert because (a) threshold\_ref not met, (b) ref window not filled hour3: 100 events (ref: 20, cur: 200) - No alert because ref window not filled hour4: 100 events (ref: 120, cur: 200) - No alert because spike height not met hour1: 0 events (ref: 0, cur: 0) - No alert because (a) threshold\_ref not met, (b) ref window not filled hour2: 20 events (ref: 0, cur: 20) - No alert because (a) threshold\_ref not met, (b) ref window not filled hour3: 100 events (ref: 0, cur: 120) - No alert because (a) threshold\_ref not met, (b) ref window not filled hour4: 100 events (ref: 20, cur: 200) - Alert because (a) spike height met, (b) threshold\_ref met, (c) ref window filled hour1: 1 events (ref: 0, cur: 1) - No alert because (a) threshold\_ref not met, (b) ref window not filled hour2: 2 events (ref: 0, cur: 3) - No alert because (a) threshold\_ref not met, (b) ref window not filled hour3: 2 events (ref: 1, cur: 4) - No alert because (a) threshold\_ref not met, (b) ref window not filled hour4: 1000 events (ref: 3, cur: 1002) - No alert because threshold\_ref not met hour5: 2 events (ref: 4, cur: 1002) - No alert because threshold\_ref not met hour6: 4 events: (ref: 1002, cur: 6) - No alert because spike height not met hour1: 1000 events (ref: 0, cur: 1000) - No alert because (a) threshold\_ref not met, (b) ref window not filled hour2: 0 events (ref: 0, cur: 1000) - No alert because (a) threshold\_ref not met, (b) ref window not filled hour3: 0 events (ref: 1000, cur: 0) - No alert because (a) spike height not met, (b) ref window not filled hour4: 0 events (ref: 1000, cur: 0) - No alert because spike\_height not met hour5: 1000 events (ref: 0, cur: 1000) - No alert because threshold\_ref not met hour6: 1050 events (ref: 0, cur: 2050) - No alert because threshold\_ref not met hour7: 1075 events (ref: 1000, cur: 2125) Alert because (a) spike height met, (b) threshold\_ref met, (c) ref window filled "Alert if at least 100 events occur within two hours and less than a fifth of that number occurred in the previous two hours. use\_run\_every\_query\_size: By default the metric value is calculated over a buffer\_time sized window. You can specify the title using title and the text value using value. If true it will sync the start and end times of the metric calculation window to the keys (timestamps) of the underlying date histogram buckets. use\_terms\_query: If true, ElastAlert will use aggregation queries to get terms instead of regular search queries. For bots, the name is the name of the token. This rule requires: match\_bucket\_filter: ES filter DSL. Run ElastAlert using either a JSON file or actual results from Elasticsearch. For example, hours: 1 means that the 'current' window will span from present to one hour ago, and the 'reference' window will span from one hour ago to two hours ago. If set, the value of exponential\_realert is the maximum realert will increase to. If you expect a large number of results, consider using use\_count\_query for the rule. (Only used if format=card) googlechat\_header\_subtitle: Sets the text for the card header subtitle. By default: body = rule name [alert text] ruletype\_text {top\_counts} {field values} With alert text type: alert\_text\_only: body = rule name alert\_text With alert type: exclude\_fields: body = rule name [alert\_text] ruletype\_text {top\_counts} With alert\_text\_type: aggregation\_summary\_only: body = rule name aggregation\_summary ruletype\_text is the string returned by RuleType.get\_match\_str. This is useful as narrowing the number of indexes searched, compared to using a wildcard, can be significantly faster. An OpsGenie API integration must be created in order to acquire the necessary opsgenie\_key rule variable. When set to false, baseline must be established for each new query key value, and then subsequent spikes may cause alerts. Must be one of the following: INFO, WARNING, ACKNOWLEDGEMENT, CRITICAL, RECOVERY Optional: victorops\_entity\_id: The identity of the incident used by VictorOps to correlate incidents throughout the alert lifecycle. For an example configuration file using this rule type, look at example\_rules/example\_frequency.yaml. This behavior can be changed by setting aggregate\_by\_match\_time. Each entry in the list of fields can itself be a list. This will only return a maximum of terms size, default 50, unique terms. For example, kibana4\_start\_timedelta: minutes: 2 kibana4\_end\_timedelta: Defaults to 10 minutes. This compound key is treated as if it were a single field whose value is the component values, or "None", joined by commas. An enhancement module is a subclass of enhancements.BaseEnhancement that will be given the match dictionary and can modify it before it is passed to the alerter. Sent request will be stored like Hive Alert with description and observables. Requires slack title to be set. The default is 30 days. Note that this field will not be available in every rule type, for example, if you have use\_count\_query or if it's type: flatline. The alerter requires the following two options: stride\_access\_token: The randomly generated notification token created by Stride. ElastAlert will perform a terms query for the top X most common values for each of the fields, where X is 5 by default, or top\_count number if it exists. bucket\_interval: If present this will divide the metric calculation window into bucket\_interval sized segments. spike: This rule matches when the volume of events during a given time period is spike\_height times larger or smaller than during the previous time period. The default is false. hipchat\_msg\_color: The color of the message background that is sent to HipChat. (Optional, string, default http://-/ plugin/kibana/) use\_kibana\_dashboard: The name of a Kibana 3 dashboard to link to. doc\_type: Specify the type of document to search for. Included term this field doesnt exist may be missing or null INFO:root:Queried rule Example rule1 from 6-16 15:21 PDT to 6-17 15:21 PDT: 105 hits INFO:root:Alert for Example rule1 at 2015-06-16T23:53:12Z: INFO:root:Example rule1 At least 50 events occurred between 6-16 18:30 PDT and 6-16 20:30 PDT field1: value1 25 value2: 25 @timestamp: 2015-06-16T20:30:04-07:00 field1: value1 field2: something Would have written the following documents to elastalert\_status: silence - {'rule\_name': 'Example rule1', '@timestamp': datetime.datetime (... (Optional, time, default rule) If you wish to aggregate all your alerts and send them on a recurring interval, you can do that using the schedule field. (Optional, time, default 1 minute) exponential\_realert: This option causes the value of realert to exponentially increase while alerts continue to fire. The alerter requires the following option: slack\_webhook\_url: The webhook URL that includes your auth data and the ID of the channel (room) you want to post to. alerta\_value: Defaults to "". smtp\_port: The port to use. terms\_size: When used with use\_terms\_query, this is the maximum number of terms returned per query. To turn this off, set raw\_count\_keys to false. Provide absolute address of the picture, for example: (what program/interface/etc the event came from) pagerduty\_v2\_payload\_component\_args: If set, and pagerduty\_v2\_payload\_component is a formattable string, Elastalert will format the component based on the provided array of fields from the rule or match. This is optional. See for more details. If that's the case, sometimes a query would not have been using the right index. You can also use a format string containing %Y for year, %m for month, and %d for day. If a query spans multiple days, the formatted indexes will be concatenated with commas. Teams supports a partial Markdown implementation, which means asterisk, underscore and other characters may be interpreted as Markdown. This must be unique across all rules. Go to the Incoming Webhooks section in your Slack account, choose the channel, click 'Add Incoming Webhooks Integration' and copy the resulting URL. Only run unique events documents, all with the same value of query\_key, will trigger an alert. Strings can be formatted using the old-style format (%) or the new-style format (.format()). (Optional, string, no default) The environment variable ES\_PASSWORD will override this field. Run against the last X day(s) and the show the number of hits that match your filter. zbx\_sender\_port: The port where zabbix server is listening.

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