LibreNMS Alter 規則是用邏輯語言定義的。GUI 提供了建立規則的簡單方法。建立更複雜的規則,其中可能包括數學計算和 MySQL 查詢,可以使用巨集來完成。關於警報規則如何在 LibreNMS 中工作的視訊

警報規則

關於如何使用萬用字元警告規則的視訊

https://www.youtube.com/watch?v=ryv0j8GEkhM&feature=youtu.be

警戒規則萬用字元

https://www.youtube.com/watch?v=eYYioFNcrAk&feature=youtu.be

語法規則必須至少由 3 個元素組成。一個實體、一個條件和一個值。規則可以包含括弧和 Glues。實體是由資料程式庫中的表和欄位提供的。例如: ports.ifOperStatus 條件可以是以下任何一個

等於	=	在	IN	開始於	LIKE ('%')
不等於	!=	不在	NOT IN	不開始於	NOT LIKE ('%')
包含	LIKE ('%%')	兩者之間	BETWEEN	結束於	LIKE ('%')
不包含	NOT LIKE ('%%')	不在兩者之間	NOT BETWEEN	不結束於	NOT LIKE ('%')
是空的	= ''	IS NULL	IS NULL	大於	>
不是空的	!= '''	IS NOT NULL	IS NOT NULL	大等於	>=
				小於	<
正則表達式	REGEXP			小等於	<=

值可以是一個實體或任何資料。如果使用巨集作為值,你必須將巨集的名稱包含在反引號中,例如:'macros.past_60m'。

注: Regex 支持 MySQL 正則表示式。也允許進行算術運算。

選項

以下是添加提醒規則時的一些其他選項

規則名稱:與該規則相關聯的名稱

嚴重程度:該規則的"重要程度"

最大警告次數:最大警告次數。事件傳送的最大警報數量。-1表示無限制。

延遲:延遲時間。判斷規則被符合后,在傳送警報傳送前等待的時間,單位為秒。

Interval(間隔時間)。事件的警告間隔時間,單位為秒,直到達到最大警告數為止。

靜音警報。禁用通過警報傳送傳送警報規則。但仍然會在 Web UI 中察看警報。

反轉符合: 反轉符合。反轉符合規則(即對不符合規則的項目發出警報)。

回復警報。如果關閉,將禁用回復通知的傳送。

進階

在"進階"選項卡上,您可以為警報規則指定一些附加選項。

覆寫 SQL。如果您使用自訂查詢,請啟用此選項

查詢:用於警報的查詢。

一個例子是所有 CPU 超過 10%的平均規則。

SELECT *,AVG(processors.processor_usage) as cpu_avg FROM devices,processors WHERE (device.device_id = ? AND devices.device_id = processors.device_id) AND (device.status = 1 && (device.disabled = 0 && devices. ignore = 0)) = 1 HAVG(processors.processor_usage) > 10 10 將包含平均 CPU 使用量值,你可以把這個值改成你喜歡的任何值。

你需要將其複製并黏貼到 Advanced 下的 Alert Rule 中,然后黏貼到 Query box 中,然后切換到 Override SQL。

流程

你可以通過在建立規則時給出過程的 URL 來關聯一個規則到一個過程。僅支援像"http://"這樣的鏈結,否則將傳回錯誤。配置完成后,可以通過"開啟"按鈕從 Alert 小套件中開啟過程,該按鈕可以在小套件配置框中察看/隱藏。

範例

+C 1/ 1			
裝置故障	device.status!=1	高記憶體使用量 <裝置啟用 且 mem 使用率大等 於 90 且 mem 描述 為 virtual >	<pre>macros.device_up = 1 AND mempools.mempool_perc>= 90 AND mempools.mempool_descr REGEXP"Virtual.*"</pre>
任何通訊埠變化	<pre>ports.ifOperStatus != 'up'</pre>	CPU 使用率高(每個核心的使用率,而不是整體) <core 90="" per="" 使用率大等於=""></core>	<pre>macros.device_up = 1 AND processors.processor_usage>= 90</pre>
根目錄 太滿 <指向根目錄 且 目錄使用到 75%? >	<pre>storage.store_descr = '/' AND storage.store_perc >= '75'</pre>	Syslog5 分內出現認證失敗 <sys log 時間標記 大等於過去 5 分 且 認證失敗 ></sys 	<pre>syslog.timestamp >=macros.past_5m AND syslog.msg REGEXP ".*authentication failure.*"</pre>
任何儲存區的使用率 大等於 "警告值 "	<pre>storage.storage_perc >= storage_perc_warn</pre>	通訊埠使用率高且 port 描述不是用戶端和 por t.ifType 不是軟體回傳	<pre>macros.port_usage_perc >= 80 AND port.port_descr_type != "client" AND ports.ifType != "softwareLoopback"</pre>
若裝置是伺服器,并且使用的儲存空間高於警告級別,但舍棄了/boot 割區<裝置類型等於 server 且儲存描述不等於 /boot >	<pre>storage.storage_perc > storage.storage_perc_w arn AND devices.type = "server" AND storage.storage_descr != "/boot"</pre>	VMware LAG 沒有使用 "源 IP 位址 hash "負載均衡	<pre>devices.os = "vmware" AND ports.ifType = "ieee8023adLag" AND ports.ifDescr REGEXP "Link Aggregation .*, load balancing algorithm: Source ip address hash"</pre>
		當 mac 位址位於你的網路上時 發出警報	ipv4_mac.mac_address = "2C233A756912"

警報規則收集 Alert rule collection

<pre>macros.device_down = "1"</pre>	Device Down! Due to no ICMP response.	<pre>macros.device_down = "1" && devices.status_reason = "icmp"</pre>
<pre>devices.uptime < "300" && macros.device = "1"</pre>	SNMP not responding on Device - Check on SNMP Service - Device marked Down!	<pre>macros.device_down = "1" && devices.status_reason = "snmp"</pre>
<pre>macros.port_down = "1"</pre>	Ping Latency 網路延遲	<pre>devices.last_ping_timetaken > "10"</pre>
<pre>services.service_status != "0" && macros.device_up = "1"</pre>	Port utilisation over threshold 端口使用率超過閾值	<pre>macros.port_usage_perc >= "80" && macros.port_up = "1"</pre>
<pre>sensors.sensor_current > `sensors.sensor_limit` && sensors.sensor_alert = "1" && macros.device_up = "1"</pre>	Sensor under limit - Check Device Health Settings 感應數值低於限制	<pre>sensors.sensor_current < `sensors.sensor_limit_low` && sensors.sensor_alert = "1" && macros.device_up = "1"</pre>
<pre>wireless_sensors.sensor_curre nt >= wireless_sensors.sensor_limi t` && wireless_sensors.sensor_alert = "1" && macros.device_up = "1"</pre>	Wireless Sensor under limit	<pre>wireless_sensors.sensor_current <= `wireless_sensors.sensor_limit_low` && wireless_sensors.sensor_alert = "1" && macros.device_up = "1"</pre>
<pre>macros.state_sensor_critical && sensors.sensor_alert = 1</pre>	State Sensor Warning	<pre>macros.state_sensor_warning && sensors.sensor_alert = 1</pre>
<pre>ipsec_tunnels.tunnel_status ! = "active" && macros.device_up = "1"</pre>	Device took too long to poll 裝置輪詢太久	<pre>devices.last_polled_timetaken >= 290</pre>
<pre>processors.processor_usage > "85" && macros.device_up = "1"</pre>	Port status change from up to down 端口狀態從開到關	<pre>ports.ifOperStatus = "down" && ports.ifOperStatus_prev = "up" && macros.device_up = "1"</pre>
<pre>devices.inserted >= `macros.past_60m`</pre>	Interface Errors Rate greater than 100 接口錯誤率大於100	<pre>ports.ifOutErrors_rate >= "100" ports.ifInErrors_rate >= "100"</pre>
<pre>eventlog.type = "discovery" && eventlog.message ~ "@autodiscovered@" && eventlog.datetime >= `macros.past_60m`</pre>	Too many wireless clients	<pre>wireless_sensors.sensor_class = "clients" && wireless_sensors.sensor_current >= `wireless_sensors.sensor_limit` && wireless_sensors.sensor_alert = "1" && macros.device_up = "1"</pre>
<pre>syslog.timestamp >= `macros.past_5m` && syslog.msg ~ "@authentication failure@"</pre>	Syslog, received Alert Priority Message Syslog·收到警報優 先級消息	<pre>syslog.timestamp >= `macros.past_5m` && syslog.priority ~ "alert"</pre>
	<pre>devices.uptime < "300" && macros.device = "1" macros.port_down = "1" services.service_status != "0" && macros.device_up = "1" sensors.sensor_current > 'sensors.sensor_limit' && sensors.sensor_alert = "1" && macros.device_up = "1" wireless_sensors.sensor_curre nt >= 'wireless_sensors.sensor_limit t' && wireless_sensors.sensor_limit t' && wireless_sensors.sensor_alert = "1" && macros.device_up = "1" macros.state_sensor_critical && sensors.sensor_alert = 1 ipsec_tunnels.tunnel_status ! = "active" && macros.device_up = "1" processors.processor_usage > "85" && macros.device_up = "1" devices.inserted >= 'macros.past_60m' eventlog.type = "discovery" && eventlog.message ~ "@autodiscovered@" && eventlog.datetime >= 'macros.past_60m' syslog.timestamp >= 'macros.past_5m' && syslog.timestamp >= 'macros.past_5m' && syslog.msg ~ "@authentication</pre>	devices.uptime < "300" && macros.device = "1"

Service warning	<pre>services.service_status = "1"</pre>	Service critical	services.service_status = "2"
Sensor over limit with linked port 連接 port 大於限制	<pre>sensors.sensor_current > sensors.sensor_limit && sensors.sensor_alert = "1" && macros.device_up = "1" && macros.sensor_port_link = "1"</pre>	Sensor under limit with linked port 連接 port 低於限制	<pre>sensors.sensor_current < sensors.sensor_limit_low && sensors.sensor_alert = "1" && macros.device_up = "1" && macros.sensor_port_link = "1"</pre>
Applications OS-Updates, New Updates Available 操作系統更新·有可 用的新更新	<pre>applications.app_type = "os- updates" && applications.app_status >= "10"</pre>	Synology NAS has a failed status	<pre>devices.os = "dsm" && sensors.sensor_type = "systemStatusState" && sensors.sensor_current = "2"</pre>
Synology NAS has a bad RAID status	<pre>devices.os = "dsm" && sensors.sensor_type = "raidStatusState" && sensors.sensor_current = "[11-12]"</pre>	Synology NAS has a failed power status	<pre>devices.os = "dsm" && sensors.sensor_type = "powerStatusState" && sensors.sensor_current = "2"</pre>
Synology NAS has a bad disk status	<pre>devices.os = "dsm" && sensors.sensor_type = "diskStatusState" && sensors.sensor_current = "[4- 5]"</pre>	Synology NAS has a new upgrade available	<pre>devices.os = "dsm" && sensors.sensor_type = "upgradeAvailableState" && sensors.sensor_current = "1"</pre>
Dell Server Raid Battery Failed/Degraded	sensors.sensor_current ~ "[2 6]" && sensors.sensor_oid = ".1.3.6.1.4.1.674.10893.1.20.130.15.1.4.1"	Dell Server Disk Controller State Failed/Degraded	<pre>sensors.sensor_current ~ "[2 6]" && sensors.sensor_oid = ".1.3.6.1.4.1.674.10893.1.20.130.1.1. 5"</pre>
Dell Server Disk Array State Failed/Degraded	<pre>sensors.sensor_current ~ "[2 5]" && sensors.sensor_oid = ".1.3.6.1.4.1.674.10893.1.20. 130.4.1.4"</pre>	Dell Server Virtual Disk Failed/Degraded	sensors.sensor_current ~ "[2 6]" && sensors.sensor_oid = ".1.3.6.1.4.1.674.10893.1.20.140.1.1.4"
SSH Connections To	<pre>%applications.app_type='porta ctivity' && %applications_metrics.ssh_tot al_to>'5'</pre>	HTTP Connections To	<pre>%applications.app_type='portactivity' && %applications_metrics.http_total_to>' 100'</pre>
FTP Connections To	<pre>%applications.app_type='porta ctivity' && %applications_metrics.ftp_tot al_to>'5'</pre>	HTTPS Connections To	<pre>%applications.app_type='portactivity' && %applications_metrics.smtp_total_from >'10'</pre>
SMTP Connections From	<pre>%applications.app_type='porta ctivity' && %applications_metrics.smtp_to tal_from>'10'</pre>	IMAP Connections To	<pre>%applications.app_type='portactivity' && %applications_metrics.imap_total_to>' 20'</pre>
SMTP Connections To	<pre>%applications.app_type='porta ctivity' && %applications_metrics.smtp_to tal_to>'30'</pre>	IMAPS Connections To	<pre>%applications.app_type='portactivity' && %applications_metrics.imaps_total_to> '20'</pre>