



**Feature Guide** 

# **Event Correlator**

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## Abstract

This document provides the features of the Event Correlator, steps to create correlation rules, and generate relevant reports.

### Note:

The screen/ figure references are only for illustration purpose and may not match the installed product UI.

## Scope

The Configuration details in this guide are consistent with Netsurion Open XDR 9.4.

## Audience

This guide is for the administrators responsible for managing Event Correlator.



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## 1 Overview

Netsurion Open XDR Correlator is a feature add-on package, which runs along with Netsurion Open XDR. It compares and matches the pattern of predefined events to identify the correlation conditions. Correlation is a class of statistical relationships between two or more variables or observed data values.

It is the process of analyzing events to identify patterns. This helps pinpoint problems such as abuse, intrusion, attacks, or failure.

### **1.1** Role of Event Correlation Rules in Netsurion Open XDR

Netsurion Open XDR uses correlation rules to keep track of enterprise network behavior and its entities. This helps an organization to determine the possible states and generate appropriate action events. Here, the correlation rules relate the incoming events and generate the alert based on the predefined rule details, if Netsurion Open XDR real-time Correlator is installed.

The rules are governed by business logic and a well-defined format which will be deciphered by the 'Correlation engine'. Each correlation rule will be a named rule and each rule must define at least one event and one action event against that event. The Events and Action events are in N > N relation, provided each rule set adheres to the following constraints.

#### **Constraints for Event:**

- Each event must have a label and must be unique to that correlation rule.
- No events can be repeated within that correlation rule.
- At least one event rule must be defined.
- Period and occurrence both must be specified.
- Can have a back reference to the preceding event as the placeholder for data within the same rule.

#### Constraints for Event Actions (If Netsurion Open XDR real-time Correlator is installed):

- Each action event must have a label and must be unique to that correlation rule.
- No action event can be repeated within that correlation rule.
- At least one 'Action event rule' must be defined.
- An action event can be constructed by referring to any of the previous events generated.

#### Note

Correlation can work in real-time (online) as well as on-demand (offline). However, action events will only work online, that is only if Netsurion Open XDR real-time Correlator is installed.



## 2 Netsurion Open XDR Correlator

Netsurion Open XDR's correlation engine is divided into two parts, a Real-time Correlator and an On-demand Correlator.

### 2.1 Real-time Correlator

It correlates the received events from the agent and performs the action based on the specified rule. The realtime correlator engine processes the event as it comes and generates new events according to the specified behavior pattern. The correlation rule will take place only when the events show the defined pattern of occurrence. A set of predefined alerts are available by default and these alerts can be activated as per the requirement.

### 2.2 On-Demand Correlator

The selected correlation rule will be applied while processing the on-demand report. The report will be generated based on the properties given in the source event. The action event properties will not be considered while generating the report. If the generated events pass through the correlator rule parser, then the generated report will contain information on all the events that occurred within the given lifetime.

## 3 Prerequisites

- Netsurion Open XDR 9.4 must be installed, and the customer should have a license for the Real-time and On-Demand features respectively.
- Netsurion Open XDR Correlator update must be applied to the Netsurion Open XDR Console. You can access the same from <u>here</u>.

#### Note

During the upgrade, the user must re-apply the respective feature add-on for the respective version of Netsurion Open XDR installed. Later, the user must traverse to Admin, select any existing rule, and save it to make sure that custom alerts and reports are retained.



## 4 Configure Correlation Rules

By default, Netsurion Open XDR has activated some correlation rules in the default rule base. The default rule base contains the predefined correlation rules and an option to add a new correlation rule.

### 4.1 To Create a New Correlation Rule

- 1. Log in to Netsurion Open XDR.
- 2. Click the **Admin** dropdown, and then select **Correlation.** The **Correlator Rules** page will be displayed as shown below:

$\equiv$ Netsurion	م ا	Adr	nin <del> -</del> Tools	- O SID-TESTING -
Correlation				A
<sup>a</sup> Correlator Rules				
Available Rules         Image: Construct 4248         Imag	Correlator Rule Details           Name         □Active           Description         \$			
Netsurion	Server Time: Mar 01 05:54 AM   Response: 0.77 secs			© 2024 Netsurion

- 3. The left pane displays the list of correlation rules available, and the right pane displays a page to add new correlation rules or edit the selected rule details.
- 4. In the Correlator Rule Details pane, enter the rule name in the Name field.

Example: File Transfer

- This rule name will be unique across the Correlator Rules.
- The input field should not contain space or special characters.
- 5. Enter the description for the rule in the description field. Example: Failed to send Syslog DLA file to the remote machine.
- 6. Select the **Active** checkbox to activate the rule. If you do not select the Active checkbox, then the Correlation rule will only get saved and will not be activated.
- 7. Click Save. Netsurion Open XDR displays the Correlator event/Action Details pane.



CORRELATOR RULES						
AVAILABLE RULES	Ð	CORRELAT	TOR RULE DETAILS			
Search		Name	FileTransferF	Active		
\$Excessive4624R	0 🗓 🔨	Description	Failed to cond Suclear DLA file to remote machine	SAVE		
\$Excessive4625R	0 Ü	Description		ONVE		
\$Excessive4740R	() 🗓	CORRELAT	TOR EVENT/ACTION DETAILS			
\$Excessive4768R	<u>í</u>		lf Insert Event			
\$Excessive529R	() 🗓		Add Event			
\$Excessive539R	() II		occurs 0 times within 0 second Insert Event			
\$Excessive540R	() 🗓		Then (I)			
\$Excessive644R	0 Ü		ACTION Add Action			

8. Click the **Add Event** hyperlink. The Properties dialog box will be displayed as shown below:



Label*				
Life Time (seconds) <del>*</del>				
Occurrence*				
Log Type	Select	~		
Event Type	Select	~		
Category				
Source				
Event Id				
User				
Computer				
Domain				
Description				

Executable File	Description
Label	A name given to the Event/Event Action. It is unique across a correlation rule. *This is a mandatory field.
Lifetime (seconds)	Specify the time limit (in seconds) of the event to hold for correlation. *This is a mandatory field.



Occurrence	Enter the number of occurrences of the event to be monitored within a specified duration. *This is a mandatory field.		
	Log type of the event.		
Log Type	(1=System, 2=Security, 3=Application)		
Event Type	Event type. (1= Error, 2=Warning, 3=Info, 4=Audit Success, 5=Audit Failure)		
Category	Enter the event category.		
Source	Enter the source of events.		
Event ID	Enter the Event ID if you wish to collect the event for the Event ID.		
User	Enter the username if you wish to monitor the events for the user. Enter the system name if you wish to collect the events from the system.		
Computer			
Domain	Enter the domain name.		
	Select Look for substring:		
	<ul> <li>Select Look for substring:</li> <li>Description</li> <li>Look for substring O Look for substring sequence O Substring and numeric patterns</li> </ul>		
	<ul> <li>Select Look for substring:</li> <li>Description         <ul> <li>Look for substring O Look for substring sequence O Substring and numeric patterns</li> <li>Enter the event details to be searched for in the event description field.</li> </ul> </li> </ul>		
	<ul> <li>Select Look for substring:</li> <li>Description         <ul> <li>Look for substring O Look for substring sequence O Substring and numeric patterns</li> <li>Enter the event details to be searched for in the event description field.</li> </ul> </li> <li>An Event will be generated only if the event description matches the given criteria.</li> </ul>		
Description	<ul> <li>Select Look for substring:</li> <li>Description         <ul> <li>Look for substring O Look for substring sequence O Substring and numeric patterns</li> <li>Enter the event details to be searched for in the event description field.</li> </ul> </li> <li>An Event will be generated only if the event description matches the given criteria.</li> <li>Select Look for substring sequences:</li> </ul>		
Description	<ul> <li>Select Look for substring:</li> <li>Description         <ul> <li>Look for substring O Look for substring sequence O Substring and numeric patterns</li> <li>Enter the event details to be searched for in the event description field.</li> </ul> </li> <li>An Event will be generated only if the event description matches the given criteria.</li> <li>Select Look for substring sequences:         <ul> <li>Description</li> <li>Look for substring sequence O Substring and numeric patterns</li> <li>Description</li> <li>Look for substring sequence O Substring and numeric patterns</li> </ul> </li> </ul>		
Description	<ul> <li>Select Look for substring:</li> <li>Description <ul> <li>Look for substring Look for substring sequence Substring and numeric patterns</li> <li>Enter the event details to be searched for in the event description field.</li> </ul> </li> <li>An Event will be generated only if the event description matches the given criteria.</li> <li>Select Look for substring sequences: <ul> <li>Description</li> <li>Look for substring sequence Substring and numeric patterns</li> <li>Followed by</li> </ul> </li> <li>Enter the search criteria in the sequence.</li> </ul>		
Description	<ul> <li>Select Look for substring:</li> <li>Description <ul> <li>Look for substring O Look for substring sequence O Substring and numeric patterns</li> <li>Enter the event details to be searched for in the event description field.</li> </ul> </li> <li>An Event will be generated only if the event description matches the given criteria.</li> <li>Select Look for substring sequences: <ul> <li>Description</li> <li>Look for substring equence O Substring and numeric patterns</li> <li>Followed by</li> </ul> </li> <li>Enter the search criteria in the sequence.</li> <li>For example: 'Manager 192.168.1.4' Followed by 'Status Failed'.</li> </ul>		



Description
${igtrianglet}$ Look for substring ${igtriangle}$ Look for substring sequence ${igodoldoldoldoldoldoldoldoldoldoldoldoldol$
Enter the search criteria.
An Event will be generated only if the event description matches the given condition.
For example: 'Manager = 192.168.1.4'

- 9. Select/enter the appropriate event property details in the **Event Properties** field, and then click **Add**.
- 10. In the **Correlator Event/Action Details** pane, move the pointer over the newly created event name. Netsurion Open XDR displays the correlator event details in a pop-up window.

me File	☑ Active		
scription Fai	ed to send Syslog DLA file to	o remote machine SAVE	
ORRELATO	R EVENT/ACTION DE	ETAILS	
		lf	
	FileTransferF	: Event	
Log Type	System	nsferF Place the Pointer	
Event Type	Information	within 30 second	
Category Id		: Event	
Source	System	ien	
Event Id	3279	Ð	
User	Karen	ION	
	MCLOON-II	<u>iction</u>	
Computer	WICED/D/14-II		

11. In the **Correlator Event/Action Details** pane, click the **Add Action** hyperlink. **(If Netsurion Open XDR real-time Correlator is installed).** The Action Properties window will be displayed as shown below:



Properties:: -	Internet Explorer		
ACTION F	PROPERTIES		^
Type of actio	n 🖲 Generate event 🔿 Run script		
Label*			
Log Type	Select		
Event Type	Select		
Category			
Source		Previous Reference	V
Event Id*			
User		Previous Reference	V
Computer		Previous Reference	V
Domain		Previous Reference	
Description			
	(select to insert a previous reference in description)	Previous Reference	Y
			ADD CANCEL

12. Enter an appropriate label name in the **Label** field for the event action. This is a mandatory field.





### Note

Г

The Label name in event properties and action properties cannot be the same. If you enter the same name, Netsurion Open XDR displays an error message.

- 13. Enter/select the appropriate details in the Action properties pane.
- 14. Click the **Previous Reference** dropdown to select the same values that you have entered in the **Event Properties** field.

ACTION F	PROPERTIES		
Type of action	n 💿 Generate event 🔿 Run script		
Label*	FileTransferA		
Log Type	Application 💌		
Event Type	Warning 💌		
Category	0		
Source	EventTracker	Previous Reference	$\checkmark$
Event Id*	3280		
User		\$FileTransferF	~
Computer		\$FileTransferF	~
Domain		\$FileTransferF	~
	Information event: Failed to send Syslog DLA file to remote machine.		
Description			
	(select to insert a previous reference in description)	Previous Reference	~
			ADD CANCEL



#### Note

In this field, you can add the substring from the Event Properties description to look for more specific results to apply the correlation rule.

- 16. Click the **Add** button.
- 17. In **the Correlator Event/Action Details** pane, move the pointer over the newly created action name. Netsurion Open XDR displays the correlator action details in a pop-up window.

CORRELATOR RULE DETAILS						
Name	FileTransferF	☑ Active				
Description	Failed to send Syslog DLA file to remote ma	achine				
CORRELA	TOR EVENT/ACTION DETAILS					
		If				
	FileTransferA	Event				
Log Type	Application	<u>nsferF</u>				
Event Type	Warning	within 30 second				
Category lo	0 1	Event				
Source	EventTracker	ien				
Event Id	3280	Ð				
User	\$FileTransferF	ION				
Computer	\$FileTransferF	Generate event) Place the Pointer				
Domain	\$FileTransferF	CTION				
Description	1	CHON				
Informatio	n event: Failed to send Syslog DLA file to					
remote ma	ichine.					

### 4.2 Action Item to Run a Script

- 1. Select or create a new correlator rule. For example: UNIXRootLogin.
- 2. Click Add Action.



3. Select the **Run Script** option. The Action Properties window will be displayed as shown below:



🙋 ::Properties:: - Internet E	xplorer	_ 🗆 🗙
ACTION PROPER	RTIES	^
Type of action	○ Generate event ● Run script	
Label*		
Script type*	VBV	
File location*	BROWSE	
Parameters*	<ul><li>▲</li><li>●</li><li>●</li><li>●</li></ul>	
PARAMETERS		
Column	ADD PARAMETER	
O Static		
	ADD CANCEL	•

- 4. Select/Enter the mandatory criteria in the **Action Properties** window.
- 5. In the Parameters pane, select the Column or Static option.
- 6. If the **Column** dropdown is selected, enter the relevant options and then click **Add Parameter**.
- 7. Click Add.



🩋 ::Properties:: - Internet E	xplorer			<u> </u>
ACTION PROPER	TIES			^
Type of action	O Generate event   Run script			
Label <b>*</b>				
Script type*	VB			
File location*			BROWSE	
Parameters*		<b>~</b> ↓		
PARAMETERS				
● Column		~	ADD PARAMETER	
O Static				
			ADD CANCEL	•

8. The existing script is generated with relevant parameters.

### 4.3 To Edit a Correlation Rule

- 1. Select an existing rule.
- 2. Enter the required changes in **Correlation Rule Details**.
- 3. In the **Correlator Event/Action Details** pane, click the existing event, update the required information, and then click **Save**.

#### Note

You can also insert an event after or before an existing event property. Hover over the event to insert another event.





4. Click the existing **Generate Event** in **Action**, update the required information, and then click **Save**.

CORRELATOR RULE DETAILS				
Name	FileTransferF		☑ Active	
Description	Failed to ser	Failed to send Syslog DLA file to remote machine		
CORRELA	TOR EVE	NT/ACTION DETAILS		
		lf Insert Event		
		<u>FileTransferF</u>		
		occurs 5 times within 30 second		
		Insert Event Then		
۲				
		ACTION		
		<u>FileTransferA- (Generate event)</u>		
		ADD ACTION		

5. To add another action, click the **Add Action** hyperlink.

CORRELATOR RULES				
AVAILABLE RULES	<u>۹</u>	CORRELATOR RULE DETAILS		
\$ExcessiveC672R	0 🗓 🍙	Name FileTransferF		Active
\$ExcessiveD4656R	0 1	Description Failed to send Syslog DLA file	to remote machine	SAVE
\$ExcessiveD560R	(i) 🗊	CORRELATOR EVENT/ACTION	DETAILS	
\$ExcessiveF4656R	0 🗊		lf Insert Event	
\$ExcessiveF560R	0 Î		<u>FileTransferF</u>	
\$ExcessiveU4656R	0 Î		occurs 5 times within 30 second	
\$ExcessiveU560R	Ū 🗓		Then	
EntLogonfail1_Rule	Ū 🗓		ACTION	
excessive4771R	Û Î	E	ileTransferA- (Generate event)	
excessive675R	0 🗓		ADD ACTION	
FileTransferF	() II			
InitRule1	0 🗊			
InitRule2	0			
IntrusionRule1	Ū 🗓			
pingRule1	0 1			
UNIXRootLogin	0 ₫ ∽			

6. Enter the required information and then click **Add**. You can add multiple numbers of events and actions.





#### Note

If you want to delete an Action or an Event, click the Delete icon.

### 4.4 To Delete a Correlation Rule

1. To delete any rule, click the **Delete** icon adjacent to the rule.

AVAILABLE RULES	Ð	Message from webpage
Search	Q	
\$ExcessiveC672R	0 🗓 🖍	Are you sure?
\$ExcessiveD4656R	() Delete rule	OK Cancel

2. Click the **OK** button.



## 5 Generate Netsurion Open XDR Correlation Events Report

For correlator rules to be visible under **Reports > Operations**, select any existing rule and save it. This is applicable for on-demand correlators only.

### 5.1 Configure Reports

- 1. Log in to Netsurion Open XDR Enterprise. Select Reports, and then select Dashboard or Configuration.
- 2. Select the **New** icon<sup>(+)</sup>, and then select the **Operations** tab.
- 3. In the 'Reports' tree, select Netsurion Open XDR node and expand it.
- 4. Select Netsurion Open XDR Correlation Events, select Report Type, and then click the Next button.



#### Note

You will find Netsurion Open XDR Correlation Events Report only if you install the on-demand Correlator.

(OR)

- 1. Right-click Netsurion Open XDR Correlation Events.
- 2. Select the On Demand/ Queued / Scheduled /Defined option.
- 3. Netsurion Open XDR displays the Reports Wizard.
- 4. Click the **Next >>** button.
- 5. Select any rule for processing, and then click the **Next** button.



ard - Internet Explorer			
REPORT WIZARD		CANCEL < BACK NEXT >	
OPERATIONS > EVENTTR EVENTTRACKER CORREL EVENTS	RACKER > ATION		
EventTracker Correlation Events Sele	ct one rule for processing	Step 2 of 8	
RULE NAME	DESCRIPTION	^	
○ \$Excessive4624R	Excessive network logon (id 4624) in 2008 domain		
\$Excessive4625R	Excessive logon failures due to User account lockout (id 4625) in 2008 domain		
○ \$Excessive4740R	Excessive User lockout (id 4740) in 2008 domain		
\$Excessive4768R	Excessive network logon(id 4768) in 2008 domain		
○ \$Excessive529R	Excessive logon (id 529) failures in 2003 domain		
○ \$Excessive539R	Excessive logon failures due to User account lockout (id 539) in 2003 domain		
○ \$Excessive540R	Excessive network logon (Id 540) in 2003 domain		
\$Excessive644R	Excessive User lockout (id 644) at DC in 2003 domain		
\$Excessive672R	Excessive network logon(Event ID 672) in 2003 domain	~	
C 45	Provenski o okusališa 1034) leven na o osnavala		
	ard - Internet Explorer         REPORT WIZAR         OPERATIONS > EVENTTI         EVENTS         EventTracker Correlation Events Sele         Image: Sevent of the	REPORT WIZARD         OPERATIONS > EVENTTRACKER >         EVENTTRACKER CORRELATION         EVENTTRACKER CORRELATION         EVENTS         EventTracker Correlation Events Select one rule for processing <ul> <li>RULE NAME</li> <li>DESCRIPTION</li> <li>\$Excessive4624R</li> <li>Excessive logon failures due to User account lockout (id 4625) in 2008 domain</li> <li>\$Excessive4625R</li> <li>Excessive logon failures due to User account lockout (id 4625) in 2008 domain</li> <li>\$Excessive4768R</li> <li>Excessive logon (id 4740) in 2008 domain</li> <li>\$Excessive4768R</li> <li>Excessive logon (id 529) failures in 2003 domain</li> <li>\$Excessive539R</li> <li>Excessive logon (id 529) failures due to User account lockout (id 539) in 2003 domain</li> <li>\$Excessive539R</li> <li>Excessive logon failures due to User account lockout (id 539) in 2003 domain</li> <li>\$Excessive540R</li> <li>Excessive logon failures due to User account lockout (id 539) in 2003 domain</li> <li>\$Excessive540R</li> <li>Excessive logon failures due to User account lockout (id 539) in 2003 domain</li> <li>\$Excessive544R</li> <li>Excessive User lockout (id 644) at DC in 2003 domain</li> <li>\$Excessive672R</li> <li>Excessive Hetwork logon(Event ID 672) in 2003 domain</li> <li>\$Excessive672R</li> <li>Excessive Event lockout (id 644) at DC in 2003 domain</li> <li>\$Excessive672R</li> <li>Excessive Hetwork logon(Event ID 672) in 2003 domain</li> </ul>	PREPORT WIZARD       CANCEL       RECK       NEXT>         OPERATIONS > EVENTTRACKER > EVENTTRACKER CORRELATION EVENTS       Step 2 of 8       INCT>         EventTracker Correlation Events Select one rule for processing       Step 2 of 8       INCT>         Image: Select Select one rule for processing       Step 2 of 8       Image: Select Select Select One rule for processing         Image: Select

You can now proceed further and configure the required correlation rule and the relevant reports will be generated.



## 6 Examples

### 6.1 Correlation of Two Events

This example will help the user search for a matched string extracted from two different events used for correlation. In the Rule Section Pattern field, a string comparison is required. A sample configuration is shown below.

```
[EVENT]
Label = Event4625
LifeTime = 300
LogType = 2
EventType = 5
CatId =
Source =
ComputerName =
EventId = 4625
User =
Domain =
Description = &<Data Name='TargetUserName'>&&</Data>&
[End]
[EVENT]
Label = Event4624
LifeTime = 300
LogType = 2
EventType = 4
CatId =
Source =
ComputerName =
EventId = 4624
User =
Domain =
Description = &<Data Name='TargetUserName'>&&</Data>&
[End]
[ACTION]
Label =ActiionEvent555
DO = GenerateEvent
LogType = 1
EventType = 2
CatId = 0
Source = EventTracker
ComputerName =
EventId = 555
```



```
User =
Domain =
Description = This event indicates a successful login after 3 logon
failure by an user$Event4625.Description&<Data
Name='TargetUserName'>&&</Data>& .
[End]
[RULE]
Label = sucessfulllogin
Description = sucessfulllogin after failure
Pattern =
Event4625:3,Event4624:1,$Event4625.Description==$Event4624.Description
Action =ActionEvent555
[End]
```

#### Note

- At present, the rule condition is supported for EQUAL (==) and NOTEQUAL (!=).
- UI is not available to configure this in the rule section of INI.

### 6.2 Search for a Particular Substring

This example will help the user to search for a specific description in the event properties of resultant events. For this, you need to enter the required description as a substring in the **Look for substring** option of **Event Properties- Description**.

```
[EVENT]
Label: Excessive4625
Life Time (Seconds):300
Occurrences: 10
Log Type:
Event Type:
Category:
Source: System
Event ID: 4625
User:
Computer: MCLOON
Domain: TOONS
Description: Account Locked Out
[End]
[ACTIONS]
Label: Excessive4625A
Log Type: Security
Event Type: Audit Failure
Category:
```



```
Source: Intrusion
Event ID: 3258
User: System
Computer: $Excessive4625F
Domain: $Excessive4625F
Description: Intrusion Detection: Excessive logon failures due to User
account lockout in your enterprise: \N\N For more information about this
condition\N Generate a report on event ID 4625 using EventTracker - Log
Search
[End]
```

The above rule set says that the events received from Netsurion Open XDR are to be monitored that possess the Event ID **4625**, and contain a description as **Account Locked Out**. If that event occurred 10 (pattern) times in 300 (lifetime) seconds, then the action **Excessive4625A** will be fired which will generate a new event **3258**.

The new event will be generated with the specified properties (Log type=security, Event Type=Audit Failure, and so on). The Parameter fields (\$) in the action properties will be replaced by appropriate values from the actual event.

### 6.3 Add Event Properties Description in the Action Event

### 6.3.1 In the Presence of Event Source Description

In some cases, you may need to reproduce some values from the source event in the event generated by the correlator. The following example will show you how to use the parameter to write an **Action event** description using details from Event Properties.

```
[EVENT]
Label: IntEvt1
Life Time (Seconds):300
Occurrences: 5
Log Type: Security
Event Type: Audit Failure
Event ID: 676
Description: Look for substring sequence -Client Address Followed by 15
[End]
[ACTIONS]
Label: Intract1
Log Type: Security
Event Type: Audit Failure
Category: 0
Source: Intrusion
Event ID: 3251
User: SYSTEM
```



Computer: \$IntrEvt1 Domain: \$IntrEvt1 Description: Critical alert- Intrusion detected.\N\N\N An unauthorized and repeated logon request from \$IntrEvt1.Description&Client Address: &15.\N\N It may be due to sophisticated hacking attempt. Please investigate and if required block the IP address on the firewall [End]

The above rule set says that the events received from Netsurion Open XDR to be monitored that possess the Event ID **676** and contain **Client Address** up to **15** characters in the description. If that event has occurred 5 (pattern) times in 300 (lifetime) seconds, then the action **Intract1** will be fired which will generate a new event **3251**.

The new event will be generated with the specified properties (Log type=Security, Event Type=Audit Failure, and so on). The Parameter fields (\$) in the action properties will be replaced by appropriate values from the actual event.

In simple terms, while defining rule sets, you can make use of the existing event details by its name as the reference. The parameter references can use string substitutions also.



### 6.3.2 In the Absence of Event Source Description

If the 'Event properties' description in **Look for substring** is left blank, then the generated action event will display the source event description. Here, the action event will extract the description from an event that has occurred at the last in the given lifetime. The following example will show you the use of parameters to write an 'Action Properties' description.

```
[EVENT]
Label: IntEvt1
Life Time (Seconds):300
Occurrences: 5
Log Type: Security
Event Type: Audit Failure
Event ID: 676
```



```
Description:
[End]
[ACTIONS]
Label: Intract1
Log Type: Security
Event Type: Audit Failure
Category: 0
Source: Intrusion
Event ID: 3251
User: SYSTEM
Computer: $IntrEvt1
Domain: $IntrEvt1
Description: Critical alert- Intrusion detected.\N\N\N An unauthorized
and repeated logon request from $IntrEvt1.Description&.\N\N It may be due
to sophisticated hacking attempt. Please investigate and if required block
the IP address on the firewall
[End]
```

The above rule set says that the events received from Netsurion Open XDR to be monitored that possess the Event ID **676**. If that event occurred 5 (pattern) times in 300 (lifetime) seconds, then the action "**Intract1**" will be fired which will generate a new event **3251**.

As the source event description is left blank, the description '**\$IntaEvt1.Description**' in action properties will fetch the description from the event that has occurred at the last in the given duration. In this example, the description of the 5<sup>th</sup> event will be displayed in the action event.





## 7 Steps to Enable Group-Level Event Correlation

To enable the correlation for group level:

- 1. Update the key "CorrelGroupBase" in tbl\_Config to True or 1 (SQL Database).
- 2. Navigate to the ...install directory\EventTracker\ETCorrel path.
- Next, in ETCorrel.ini, use the "@@" character for group consideration in the "ComputerName =@@" column of [EVENT] section.

```
****
# Prism Microsystems, Inc
# eMail : support@prismmicrosys.com
[CORREL]
CacheSize = 50000
EventLifeSecs = 60
Debug = 0
ActionEventDestn = 127.0.0.1
[End]
#-----
#Rule : Excessive logon failures due to bad password in 2003 domain
#______
[EVENT]
Label = excessive675
LifeTime = 300
LogType = 2
EventType = 5
CatId =
```



```
Source =
ComputerName = @@
EventId = 675
User =
Domain =
Severity =
Description =
Comments =
[End]
[ACTION]
Label = excessive675A
DO = GenerateEvent
Destination = 127.0.0.1:14505
LogType = 2
EventType = 5
CatId = 0
Source = Intrusion
ComputerName = $excessive675
EventId = 3253
User = $excessive675
Domain = $excessive675
Severity = 1
Description = Intrusion is detected - Excessive logon failures due to
bad password \N\N Number of log failures in your enterprise have crossed
the limit. \N\NPlease generate a report on event id 675 to verify that
which system and user is trying responsible for intrusion.
```

Comments =



```
[End]
[RULE]
Label = excessive675R
Description = Excessive logon failures due to bad password in 2003
domain
Pattern = excessive675:10
Action = excessive675A
[End]
```

4. After making the changes, restart the **Event Correlator** service.

After applying the update, for the event rule where the computer name is given as @@, it will consider the events based on group level.



### **About Netsurion**

Netsurion<sup>®</sup> delivers an adaptive managed security solution that integrates our Open XDR platform with your existing security investments and technology stack, easily scaling to fit your business needs. Netsurion's 24x7 SOC operates as your trusted cybersecurity partner, working closely with your IT team to strengthen your cybersecurity posture. Our solution delivers managed threat protection so you can confidently focus on your core business.

Headquartered in Ft. Lauderdale, FL with a global team of security analysts and engineers, Netsurion is a leader in Managed Detection & Response (MXDR). Learn more at <u>www.netsurion.com</u>.

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