



Comodo EDR

Software Version 1.7

Quick Start Guide

Guide Version 1.1.042519

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Comodo EDR - Quick Start

This tutorial explains how to setup Comodo Endpoint Detection and Response (EDR). The guide will take you through the following processes:

- Step 1 Login to EDR
- Step 2 Add Endpoints to EDR
- Step 3 Manage EDR Policies
- Step 4 View Events Details on Endpoints
- Step 5 View Alerts
- Step 6 Analyze Events
- Step 7 Investigate Events on Computers
- Step 8 Analyze Files by their Hash Values
- Step 9 View Process Timeline of Events

Step 1 - Login to EDR

There are two ways to access the EDR interface:

Login at EDR portal

• Go to https://edr.cwatch.comodo.com/login and click 'Login' at top-right:

ſ		Can't Wait? Call Now +1 (844) 260-2204
	CWatch EDR	rs Who needs cWatch EDR? Help Guide
	Welcome to EDR	
.d's Fir	🚔 Email	always be FREE!
	ae Password	
ious abou	SIGN IN	ints need protection against file-
stions too	Forgot Password?	powershell?
	Don't have an account? Sign Up	
how the attac		anced event definitions
what the full att	✓ Free	COMODO's Recommended Security Policy

- Enter your credentials and click 'Sign in'. Click 'Forgot Password' if you can't remember your password.
- EDR opens at the dashboard after you login.

Comodo One MSP Customers:

- Login to your account at https://one.comodo.com
- Click 'Applications' > 'cWatch EDR' to open the application in new tab:

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ENROLL NEW DEVIC	Endpoint Manager				NEW QUOTE
	RMM				
Customer: All	Patch Management				o; Customize
the fact the second	Device Management		-		
Help Actions	Procedures		licket Data		
10	Endpoint Protection				
H	Service Desk	@=	High Priority	Open	Overdue
Help Guides	Dome Shield	Email Support			
	CWatch EDR				
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R	All Applications		Charletter	STRANGISS	1000-100400
3				A	
Contact Informatio	n		SL94437094	Ayaq - Gervey Jame	

Step 2 - Add Endpoints to EDR

You need to install the EDR agent on all endpoints that you wish to monitor. There are two ways to do this:

- 1. Individual Endpoints.
 - Click 'Download Agent' at the bottom-left of the EDR interface
 - Install the agent on every target machine
 - Click here to view a tutorial on this process
- 2. Group Policy Management (GPO). See the GPO guide at https://help.comodo.com/topic-444-1-910-11939-Introduction-to-Agent-Deployment-via-GPO.html for help with this.
- Script execution via Endpoint Manager. Use an Endpoint Manager script to deploy the agent. You can download the script from: https://scripts.comodo.com/frontend/web/topic/enroll-comodo-edr-agent

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<i>ำ</i> สักลาก็เงื่	B APPLICATIONS - C MANAGEMENT	- 🖹 REPORTS 🍃 STORE 🕋 TOOLS	Statute a Economic a Economic a)× @× 🛱 🙆×
Endpoint Manager	E Procedures		License Options 🐞 👔 🛓 Logout (herculespo	pular22@gmail.com)
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	Wy Procedures B Predefined Procedures	Create Import Procedure Export Procedure Clore	Pun Delete Procedure Expant	0 7
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You need to create a custom procedure in Endpoint Manager to run the script:

- Login at https://one.comodo.com
- Click 'Applications' > 'Endpoint Manager'
- Click 'Configuration Templates' > 'Procedures'
- Click 'Create' > 'Create Script Procedure'
- The script you downloaded earlier goes in the 'View Procedure' tab. Please remember you need to modify this script to suit your use case.

See 'Create a custom procedure' for help to create a custom script.

Add endpoints individually

- Login to your EDR account from each endpoint and download the agent from there.
- Click 'Download Agent' in the left menu.

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File Home Share	View Manage		~ 😗
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Deckton	Somodo_EDR_Agent_Installer_1.1.258.3_Bk3uAu5kQ	5/29/2018 12:47 PM	Application
	ComodoRemoteControl	5/23/2018 1:48 PM	Application
Uownloads 🖈	🆺 Firefox Installer (1)	5/30/2018 2:53 PM	Application
Shared Space 🖈	🖺 Firefox Installer	5/29/2018 2:10 PM	Application
😫 Documents 🖈	🙀 itsm_E1bYJR4J_installer	5/22/2018 5:20 PM	Windows Installer
📰 Pictures 🛛 🖈	🙀 itsm_zZTWucmT_installer	5/23/2018 11:08 AM	Windows Installer
Music	🍖 revosetup	5/22/2018 12:44 PM	Application
Videos	New wordweb8	5/29/2018 1:08 PM	Application
a OneDrive			
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8 items 1 item selected 5	.38 MB		

Open the setup file to start the installer



- The default installation location is C:\Program Files (x86)\COMODO\cWatchEDRAgent\. Click 'Browse...' to choose a different installation location.
- Click 'Next' to continue the installation

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🖟 COMODO cW	/atch EDR Agent Setup		_		\times
Installing CO	MODO cWatch EDR /	Agent		E	
Please wait while	e the Setup Wizard installs	COMODO cWatch	EDR Agent.		
Status:					
		Back	Next	Cano	el

You must restart the endpoint to complete the installation:



- Click 'Close'
- Restart the endpoint to finalize the installation.

That's it. The endpoint now is enrolled to EDR and can be found in the 'Endpoints' area:

- Login to EDR as described earlier
- Click 'Endpoints' in the left-menu. This area lists all endpoints you have added to EDR:

EDR	-					Upgrade	Now Welcome, e	dnjicamodo.com B
	Endpoints							
Dashboard	Search with endpoint versio	n, local lp address, com	puter name, logged on user ar	nd connection status				
Alerts								
	Endpoint Search Result							
Policy Management	# Endpoint Version	Local IP Address	Computer Name	Operating System	Logged On User	Connection Status	Detection	Last Update Time
Detection	1 1.1.260.2	172.17.104.17	ANM0406	Windows 10 or Later 64 bit platform	korayy	Online	No	2018/11/19 18:20:0
and a second sec	2 1.1.260.2	10.104.69.60	USNJCS7	Windows 10 or Later 64 bit platform	ozerm	Online	No	2018-11-13 18:15:4
Endpoints	3 1.1.260.2	10.100.159.8	WIN101	Windows 10 or Later 64 bit platform		Disconnected	No	2018-11-13 17:463
	4 1.1.260.2	10.0.2.15	WIN-590SJRR15BG	Windows II or Later 64 bit platform		Disconnected	No	2010-11-12 16:00
Investigation	5 1.1.260.2	10.100.182.117	AND0414	Windows 10 or Later 64 bit platform		Disconnected	No	2018-11-18 18:57:
» Event Search	6 11,260.2	10.108.51,209	DESKTOP-TTP09PR	Windows 10 or Later 64 bit platform		Disconnected	No	2018-11-18 11:23
 Computer Search 	7 1.1.260.2	192.168.1.159	OZER PC	Windows 8 or Later 64 bit platform	Mohmet@20r	Disconnected	No	2018-11-12 06:29>
a serie a series	8 1.1.259.0	192,168,38,130	DESKTOP-AUQ48VH	Windows 10 or Later 64 bit platform	CMD-CHINAGA	Disconnected	Suspend	2018-10-24 01:14:
Hash Search	9 1.1.259.0	172.18.223.65	ANMD406	Windows 10 or Later 64 bit platform	konayy	Offine	No	2010-00-16 16:40:1
Download Agent	10 1.1.253.3	127.0.0.1	ANM123	Windows 7 64 bit platform	yasii	Disconnected	No	2018-02-13 21:59:1
	11 1.1.253.3	192.168.1.242	WIN-J78DRE70S4U	Windows 10 or Later 64 bit platform	SYSTEM	Disconnected	No	2018-02-08-08:25>
	12 1.1.253.3	10.100.129.141	EDRWIN0132	Windows B or Later	edr	Offine	No	2010-01-19 10:53:
	13 1.1.253.8	10.100.136.238	ANM0189	Windows 10 or Later 64 bit platform	SYSTEM	Offline	No	2018-01-04 18:04:
	14 1.1.258.8	10.100.132.63	AND0020	Windows 10 or Later 64 bit platform	nurd	Offline	No	2017-12-22 13:36:1
	15 1.1,106.0	10.100.186.226	AND0148	Windows 10 or Later 64 bit platform	SYSTEM	Disconnected	ND	2017-10-16 21:28:
	16 1.1.253.0	10.100.132.178	ANM0132	Windows 10 or Later 64 bit platform	SYSTEM	Disconnected	No	2017-09-27 18:53 5
	17 1.1.105.0	192.168.1.151	ANM0091	Windows 7 64 bit platform	SYSTEM	Disconnected	No	2017-09-18 05:10:0
	18 1 1 106 0	10.100.126.139	AND/0113	Windows 10 or Later 64 bit platform	SUSTEM	Decorrected	No	2017-09-11 20:20 2

Step 3 - Manage EDR Policies

- An EDR policy determines which events will generate an alert for you.
- There are 7 event categories. You can define specific rules within each category.
- Comodo EDR ships with a default security policy that is applied to all enrolled endpoints.
- You can also create custom policies according to your requirements.
- Only one policy can be active at a time. You cannot delete the active policy.

Note. EDR policies do not determine which events are monitored and logged, they determine which events you *receive alerts* for. cWatch automatically logs all events and submits suspicious files to Valkyrie for analysis, regardless of EDR policy. This means cWatch will always catch zero-day malware, even if you prefer to disable some alerts in a policy.

You can search raw logs in the 'Investigation' screen.

Click 'Policy Management' on the left to manage EDR security policies:

EDR	Ξ	Upgrade Now	Welcome, edrc1@yopmail.com	0+ Log out
🖚 Dashboard	Policy List			
Alerts	COMODO Recommand Policy is by default your active policy. You may change or modify it anytime. There is exactly one active policy at any given time. Event acces esails is 0-10.			
Policy Management	Events with scores 6-10 are High Risk Events.			
Detection	✓ Comodo Recommended Security Policy			
Endpoints	Greate Policy			
Q investigation				
» Event Search				
» Computer Search				
> Hash Search				
🏝 Download Agent				
	2018 @ EDR by Comodo.			

- The screen shows general information about policies and lists the default 'Comodo Recommended Security Policy'.
- A check-mark beside a policy indicates it is currently active.

Create and Activate a Policy

Click 'Create Policy':

	EDR	=	Upgrade Now	Welcome, edrc1@yopmail.com	9	Log out
SA.	Dashboard	Policy List				
	Alerts	COMODO Recommend Policy is by default your active policy. Yo There is exactly one active policy at any given time. Event score scale is 0-10. Events with score 0-5 are Low Risk Events.	ou may change or	modify it anytime.		
	Policy Management	Events with scores 6-10 are High Risk Events.				
U	Detection	✓ Comodo Recommended Security Policy				
Ģ	Endpoints	+ Create Policy				
Q	Investigation					
3	» Event Search					
3	Computer Search					
3	» Hash Search					
*	Download Agent	2018 @ EDR by Comodo.				

Create a name for the policy and press enter:

•

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	Event score scale is 0-10. Events with score 0-5 are Low Risk Events. Events with scores 6-10 are High Risk Events.	
Þ	✓ Comodo Recommended Security Policy	
U	Chennai Site Policy Ca	ncel

Now, click on the policy name to view and edit its current details:

Comodo Recommended Security Policy	
Chennal Site Policy	Edit Policy
+ Create Policy	

- The new policy is automatically assigned a set of default rules.
- · You can add new rules, edit or delete rules as required.

 \mathbf{O} = D Log out Chennai Site Policy Activite Delete B Company Rules Endpoint Rules . OB Process Events Add New Registry Events Add New Create Process Set Registry Value E Suspicious System Process Cre Disable User Account Co ØG ØÐ WHEN pros. verdict not, equal Safe V IN reg_key_path equal HKEV_LOC a value parce equal Stable LIA X D ote Powershell Execution 5 ØO able Task Manager 9 ØΘ EN child, prcs, path matches hw Stop Service 5 ØΘ stallation of Drivers 8 00 Q Suspicious Powershell Flag 5 ØΘ HEN reg.key.path matches HKEY.LOCAL_MACHINE/SYSTEMi/CurrentCom al Type OR WHEN reg_value.data equal 1 OR WHEN reg_value.data equal 3 WHEN child, pros, end, line matches " hild, pros, end, line matches "powers! ± Add New File Events Add New (a) Download Events

The policy interface has two tabs - 'Company Rules' and 'Endpoint Rules'.

- Company Rules Create rules by event category. Company rules are applied to all protected endpoints. See 'Company Rules' for more information.
- Endpoint Rules Create additional conditions for each event category and apply to specific endpoints. See
 'Endpoint Rules' for more details.

Company Rules

There are seven event categories in the company rules section.

Each category has conditions or rules that can be implemented in your policy. You can create new conditions and edit or delete a condition from an category.

The built-in event categories are:

- Process Events Rules to alert you when processes are invoked by an application
- Registry Events Rules to alert you about changes to the Windows registry on your endpoints.
- File Events Rules to alert you about modifications to system files.
- **Download Events** Rules to alert you when files are downloaded via browsers, emails, shared folders or external drives.
- Upload Events Rules to alert you when files are transferred to shared folders or external drives.
- **Defense+ Events** Rules to alert you when processes attempt to access critical operating system functions or launch attacks.
- Network Events Rules to alert you about any service listening to ports and network connections on your endpoints.

To create a new condition

• Click 'Add New' at the top of an event category:

The 'Add Condition' dialog will open:

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,	Add Condition		
E	Event Type		
	Choose Event Type	۳	
	– Choose Event Type – Delete Registry Key Delete Registry Value Set Registry Value		

- **'Event Type'** choose the type of incident that you want EDR to detect. The event types available depend on the event category chosen.
- In the example above, the category is 'Registry Events', so the available event types are 'Delete Registry Key', 'Delete Registry Value' and 'Set Registry Value'.
- After choosing a type, you must next construct your condition. You do this by choosing the specific criteria which should be monitored. Again, the criteria vary by event category and event type.
- In the example above we will chose 'Registry Events' > 'Set Registry Value'. The available criteria for 'Set Registry Value' let you specify which key names, values or paths should be monitored.

Add Condition	
Event Type	
Set Registry Value	٣
Event Name	
Score 0	
AND OR	Add group
	X Delete
s	ave Cancel

- Event Name Create a label for your condition. This label will be shown as 'Alert Name' in the 'Alerts' interface.
- Score Rate the event according to how seriously you judge the incident. Scores range from 0 to 10.
 - Scores 0 to 5 Low risk events
 - Scores 6 to 10 High risk events

The next step is configure the parameters and conditions for the rule.

Click the arrow below 'AND/OR'

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Add Condition	
Event Type	
Set Registry Value	*
Event Name	
Modify User Account Control	
Score 9	
AND OR	+ Add rule • Add group
	× Delete
Process Path Process Verdict Registry Value Data	Save Cancel
Registry Key Path Add Active Se	etup Value In Registry 7

The parameters depend on the selected category and event type.

- · Choose the parameter you wish to monitor
- In the second box select the condition. The conditions list varies for different parameters.
- In the third box, enter or select the value. You have to enter the value or select depending on the parameter.

Add Condition		
Event Type		
Set Registry Value		٣
Event Name		
Modify User Account Control		
Score 9		
AND OR	ld rule 🛛 🛇 Ad	ld group
Registry Key Path equal HKEY_LOCAL_MACHINE	×	Delete
	Save	Cancel

- Click 'Delete' to remove the rule
- · Click 'Save' if the rule satisfies your requirement
- To add multiple rules, click 'Add rule'
- Define parameters and condition as explained above.

Add Condition			
Event Type			
Set Registry Value			¥
Event Name			
Modify User Account Control			
Score 9			
AND OR			+ Add rule • Add group
- Registry Key Path 🔹	equal	* HKEY_LOCAL_MACHINE	X Delete
- Registry Value Name 🔻	equal	• EnableLUA	× Delete
Registry Value Data 🔻	equal	▼ 0	X Delete
			Save Cancel

• Use 'AND' or 'OR' operators for the rule per your requirement

You can add multiple rules and define their relationship with 'AND', 'OR' operators.

- To add a group, click 'Add group'
- Define parameters and conditions as explained above.

Add Condition
Event Type
Set Registry Value
Event Name
Installation of Drivers
Score 9
AND OR Add group
Registry Key Path matches HKEY_LOCAL_MACHINE KDelete
Registry Value Name equal Type
AND OR + Add rule • Add group * Delete
Registry Value Data V equal V 1
Registry Value Data V equal V 2
Save Cancel



- Use 'AND' or 'OR' operators for groups (and within a group for rules) per your requirements.
- Click 'Save' when done.
- An alert will be created if the rule condition(s) are met
- To edit a rule, click the pencil icon beside it and update as required. The process is same as explained above.

Endpoint Rules

- Click 'Policy Management' on the left then the 'Endpoint Rules' tab
- · Select the endpoint from the drop-down

0	Ξ	Upgrade Now Welcome, Demo Premium 🛛 🕪 Log out
	Comodo Recommended Security Policy	
626	Company Rules Endpoint Rules	LOW RISK HIGH RISK
	Choose Endpoint:	
-	DESKTOP-HI950BN – Administrator	•
	Choose Endpoint ANM0261 butch DESKTOP-7.38U/DU ops DESKTOP-198U/DU deploitement	
0.452.665.66	edrwin732 vincent	
	Create Process	
U U	Suspicious System Process Creation 6 Company Policy	Modify Powershell Execution Policy 7
_	WHEN proaliverdict not, equal Safe WHEN child, proslipath matches Reystemroot% V	hein (16g, kaj, jaan egaar Hiser, joodkel, jokan inde soor in kendomistoori (Honoro) hein (1) Shellos Milorosoft PowerShell WHEN regulalus_name equal ExecutionPortogil
<u>لين</u>	Develo Developel Creation 5	Modify AppInit_DLLs in Registry 6
	Release Powerstein execution a	WHEN reg, key jostheousli HKEY, LOGAL, MACHINE/Software Microsoft Windows

 All the event rules under 'Company Rules' will be applicable for the endpoint and shown as 'Company Policy', which cannot be edited or removed from here.

Process Events	Add New
Create Process	Conseany Policy
WHEN prcs_verdict not_equal Safe WHEN child_prcs_path matches %systemroot%*	L
Remote Powershell Execution 5 WHEN child_prcs_path matches *\wsmprovhost.exe	Company Policy
Suspicious Powershell Flag 5 WHEN child_pros_cmd_line matches *powershell*-NoP* WHEN child_pros_cmd_line matches *powershell hild_pros_cmd_line matches *powershell*-w* WHEN child_pros_cmd_line matches *powershell*-Exec* Wi cmd_line matches *powershell*-ex* WHEN child_pros_cmd_line matches *powershell*-ep* WHEN child_pros atches *powershell*-command* WHEN child_pros_cmd_line matches *powershell*-NoL* WHEN child_pros wershell*-command* WHEN child_pros_cmd_line matches *powershell*-Enc* WHEN child_pros wershell*-Enc* WHEN child_pros_cmd_line matches *powershell*-Enc* WHEN child_pros Electron onces_cmd_line matches *powershell*-Enc* WHEN child_pros	Company Policy HEN child_prcs_ prcs_cmd_line m cs_cmd_line mat cs_cmd_line mat prcs_cmd_line

- Add new rules under event categories that will be applicable for the selected endpoint only
- · Click 'Add New' link and follow the same process as explained under 'Company Rules'

Defenseplus Events	Add New
Access Raw Disk 3	Company Policy
Access Screen 3	Company Policy
Set Windows Hook 8	$\bigcirc \bigcirc$

- The added rule can be edited or removed from the event category.
- To edit a rule, click the pencil icon beside it and update as required. The process is same as explained above.

See 'Manage EDR Policies' for more help with this.

Step 4 - View Events Details on Endpoints

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The 'Detection' screen shows detailed information about malicious events on your endpoints.

Click 'Detection' on the left to open the 'Detection' interface

EDR	=	Upgrade N	ow Welcome, Demo Premium 😁 Log ou
 Dashboard Alerts 	Detection Search with user, computer or hash		∰ 2018-05-03-2018-06-01 ∨ Q
Policy Management	Detection Search Results [Time : 2018-05-03 16:47:45:442 - 2018-06-01 16:47:45:442] # Computer Name User Sha1	Count First Event -	Last Event Valkyrie Report
Detection	1 DESKTOP-7J8UVDU user3 27D99FBCA067F478BB91CDBCB92F13A828B00	859 1 2018-05-24 22:28:58	2018-05-24 22:28:58 See Report
Endpoints	2 DESKTOP-7J8UVDU user3 82338F6E61390ED8959255A8A47788E76F10D2	BC 1 2018-05-24 22:28:58	2018-05-24 22:28:58 See Report
	3 ANM0261 User2 27D99FBCA067F478BB91CDBCB92F13A828B00	859 1 2018-05-24 22:28:58	2018-05-24 22:28:58 See Report
Q Investigation	4 ANM0261 USer2 82338F6E61390ED8959255A8A47788E76F10D2	BC 1 2018-05-24 22:28:58	2018-05-24 22:28:58 See Report
» Event Search	5 edrwin732 user 27099FBCA067F478B891C0BCB92F13A828B00	859 1 2018-05-24 22:28:58	2018-05-24 22:28:58 See Report
» Computer Search	6 edrwin732 user 82338F6E61390ED8959255A8A47788E76F10D2	BC 1 2018-05-24 22:28:58	2018-05-24 22:28:58 See Report
» Hash Search	Total Counce &, Page 1 of 1		
🛓 Download Agent			

Detection Search Results - Table of Column Descriptions			
Column Header	Description		

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Computer Name	The name of the endpoint. Click the computer name to view its full details. See 'Computer Search' for details.
User	The user who is logged in to the endpoint.
Sha 1	Hash value of the detected malware. Click the hash value to view its full details. See 'Hash Search' for details.
Count	Number of times the malicious event was detected on the endpoint.
First Event	Date and time the event was first detected on the endpoint.
Last Event	Date and time the event was most recently detected on the endpoint.
Valkyrie Report	Unknown and suspicious files are analyzed by Comodo's Valkyrie, an advanced file analysis and file verdict system. Click 'See Report' to view the file analysis. See https://help.comodo.com/topic-397-1-773-9563-Introduction-to-Comodo-Valkyrie.html for more information about Valkyrie.

- The 'Search' box above the table lets you filter the list:
 - Type full or partial search terms in the search box and press enter.
 - Matching results will be automatically displayed
 - Clear the search terms and click 'Search' again to reset the list.
- Click any column header to sort items in ascending/descending/alphabetical order.
- Use the time-range drop-down to show event information for a specific date or date range.

See 'Viewing Event Details on Endpoints' topic if you need more help with this.

Step 5 - View Alerts

Alerts are created when an event on your network matches a rule in your EDR policy. See 'Manage EDR Policies' if you want to learn about policies and rules.

• Click 'Alerts' on the left to open the interface:

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				003 4 000					
2	=							Upgra	de No
	Alerts								
M	Alert Search	Poli	cies	Device	Statue	Soore			
-		-	Select Policy -	V - Select Device - V	– Select Status – 🗸 🗸	0	15 Apr	dy Ch	Har
B	Alert Lis	ŧ							
	Score	Alert Name	Alert Time	Process Name	Device	Policy	User Verdict	Alert Statu:	s
•	۹ 4	Run Untrusted Executable	2018-11-13 13:44:36	C:\WINDOWS\Explorer.EXE	DESKTOP- TTPO9PR	Comodo Recommended Security Policy	N/A	New	0
Ē	Q 5	Write to Executable	2018-11-13 13:33:26	C:\WINDOWS\Explorer.EXE	DESKTOP- TTPO9PR	Comodo Recommended Security Policy	N/A	New	0
n	Q. 4	Run Untrusted Executable	2018-11-13 13:27:56	C:\WINDOWS\Explorer.EXE	DESKTOP- TTPO9PR	Comodo Recommended Security Policy	N/A	New	0
U.	۹ 4	Run Untrusted Executable	2018-11-13 13:18:08	C:\WINDOWS\Explorer.EXE	DESKTOP- TTPO9PR	Comodo Recommended Security Policy	N/A	New	0
2	Q 10	Write to Infectible File	2018-11-13 13:18:08	C:\WINDOWS\Explorer.EXE	DESKTOP- TTPO9PR	Comodo Recommended Security Policy	N/A	New	0
0	Q 10	Write to Infectible File	2018-11-13 13:15:03	C:\WINDOWS\Explorer.EXE	DESKTOP- TTPO9PR	Cornodo Recommended Security Policy	N/A	New	0
4	۹ 5	Write to Infectible File	2018-11-13 12:32:00	C:\WINDOWS\Explorer.EXE	DESKTOP- TTP09PR	Comodo Recommended Security Policy	N/A	New	0
Ł	۹ 4	Run Untrusted Executable	2018-11-13 12:18:12	C:\Users\Vega\AppData\Local\Temp\INS2ECD	tmp DESKTOP- TTPO9PR	Comodo Recommended Security Policy	N/A	New	0
	۹ 4	Run Untrusted Executable	2018-11-13 12:12:13	C:\WINDOWS\Explorer.EXE	DESKTOP- TTPO9PR	Comodo Recommended Security Policy	N/A	New	0
	۵ 5	Write to Executable	2018-11-13 12:12:10	C:\Users\Vega\AppData\Local\Temp\Temp1_A p\AWFT\setup.exe	WFT.zi DESKTOP- TTPO9PR	Comodo Recommended Security Policy	N/A	New	0
	Q 10	Write to Infectible File	2018-11-13 12:08:49	C:\WINDOWS\Explorer.EXE	DESKTOP- TTPO9PR	Comodo Recommended Security Policy	N/A	New	C
	۹ 5	Write to Executable	2018-11-13 12:08:49	C:\WINDOWS\Explorer.EXE	DESKTOP- TTPO9PR	Comodo Recommended Security Policy	N/A	New	0
	a 👘								0

Alerts - Table of Column Descriptions				
Column Header	Description			
Score	The rating you specified for the event when creating the rule. You can apply a score between 0 and 10 based on the severity you place on the event. See 'Manage EDR Policies' for more information.			
Alert Name	The label you gave to the condition when creating the rule. Alerts are generated when rule conditions are triggered. See 'Manage EDR Policies' for more information.			
Alert Time	The date and time the warning was created.			
Process Name	Path of the application that caused the event.			
Device	The name of the endpoint from which the event was logged.			
Policy	The name of the security policy that created the alert.			
User Verdict	The status assigned to the alert by the admin who dealt with the issue. Options include:			
	False Positive - Admin does not consider the incident a security threat			
	True Positive - Admin confirms the incident occurred. The 'Score' attached to the incident should determine the response required.			
	Add comments.			
	Note - The comments will not appear in the list of user verdicts			
Alert Status	Progress of the alert. Statuses include:			



•	New - Work has not yet started on the alert
•	In progress - An admin is attending to the alert
•	Resolved - An admin has submitted a verdict for the alert

Filter options

You can search for particular alerts using the following filters:

- Alert Name Search by alert label.
- Alert Time Search by when the alert was generated.
- Process Name Search by process name
- Devices Select the device on which the event occurred
- Policy Filter by policy that triggered the alert
- User Verdict Filter by status awarded to the alert by an admin.
- Alert Status Filter by any of the 3 progress levels 'New', 'In progress' or 'Resolved'.
- Enter / select the filter and click 'Apply'
- Click 'Clear' to remove the search filters

You can configure multiple filters to search for a particular alert. For example, you can search for an event by its alert name, policy and the endpoint.



• Click the play icon beside the 'New' alert status to submit the verdict.

The alert status will change to 'In progress'

Click the progress icon to submit the verdict

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Change Status for Run Untrusted Executable	×
Alert Time: 2018-11-13 13:27:56 Policy: Comodo Recommended Security Policy Computer Name: DESKTOP-TTP09PR Process Path: C:\WINDOWS\Explorer.EXE C:\WINDOWS\Explorer.EXE C:\WINDOWS\Explorer.EXE	
Changing the status of an alert to resolved requires user verdict. Do you think this alert is a:	
Please give us feedback on this alert. (Optional)	.1
Sub	mit

- Click 'Submit' to resolve the alert
- · Click the reopen icon if you want to change the verdict.

					Upgrade Now
15 A	Clear				
	Device	Policy	User Verdict	Alert Status	
	DESKTOP-TTPO9PR	Comodo Recommended Security Policy	N/A	In Progress	0
			True Positive	Resolved	C O
		\frown	N/A	New	0
	(i)	A P	New	0
			N/A	New	0
			N/A	New	0
	Are y	ou sure?	N/A	New	0
	This alert will be opened	l again. Reopening an alert will	N/A	New	0
	delete i	s user verdict.	N/A	New	0
			N/A	New	0
	Yes, reopen	it! Cancel	N/A	New	0
			N/A	New	0

- Click 'Yes, reopen it!' to change the verdict
- Click 'Cancel' to keep the verdict unchanged

View Event Details

• Click 'Show Details' in the 'Score' column:

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A	ert List		
	Score	Alert Name	Alert Time
Q	4	Run Untrusted Executable	2018-11-14 18:25:08
Q	12	Write to System Directory	2018-11-14 18:24:45
Show [Details	Write to System Directory	2018-11-14 18:24:45
Q	4	Run Untrusted Executable	2018-11-13 13:44:36
Q	5	Write to Executable	2018-11-13 13:33:26
Q	4	Run Untrusted Executable	2018-11-13 13:27:56
Q	4	Run Untrusted Executable	2018-11-13 13:18:08
	10	Write to Infectible File	2018-11-13 13:18:08

This open the information screen for that event:

0	-												Upgrade Now
м	Explorer.EXE - W Alert Time: 2010-11-13 121 Safe User name: Th	rite to Infectible File O 533 Policy: Canada Recomm ge User Weeklet: N/N	ended Security Policy 0	Computer Name: DEDCTOP-TTP	NPR Open	eling Bysteen: Windows 10 or Later 65 t	sit platform	Last Sees: 2010-11-14 10:17.04	Shat: concession.comore	William State	Pade Contone Juga	ow Di	Vendiat:
ø	Events											ListView	Tree View
+	* 5h	-	Adaptive Event Name					Event Type			Scene		
*	• •		Write to Infectible Fil	le .				Wite File					
	•		Write to Executable					Write Pile			3		
	File Trajectory												Reset Zoom
U		13 Nevember 2018										14 Novem	duer 2018
		9		4	2	1440 14	9		100	9			
-	DESICTOP	TINONE											_
۹		© Browser Download	El Cepy Prom Shared In Creation	Darlandium	red Polder 1	A Email Sourcead 🛛 👔 Copy P	here USS Disk	() Capy To USB Disk B	Vinte File				
*													

The top part of the screen shows details such as the alert name and the application that generated the event:



- Alert and application name is shown at the top
- Alert Time Date and time of the alert
- Policy Name of the security policy. Click the name of the policy to open the policy management screen.
 See 'Manage EDR Policies' for more information.
- Computer Name Name of the endpoint from which the event was logged. Clicking the endpoint will open the 'Computer Search' screen with the endpoint preselected. See 'Computer Search' for more details.
- Operating System Details of the endpoint's OS from which the event was logged.
- Last Seen The last date and time the endpoint communicated with EDR.
- Sha 1 The hash value of the file. Clicking the hash value will open the 'Hash Search' screen with the file preselected. See 'Hash Search' for more information.
- Path The full process path of the event that was logged. Clicking the process path will open the 'Event

Search' screen with the event query auto-filled in the search field. See 'Event Search' for more details.

- Verdict Valkyrie results after the analysis.
- User name The logged in user name of the endpoint. Clicking the name will open the 'Event Search' screen with the event query auto-filled in the search field. See 'Event Search' for more details.
- User Verdict The admin's conclusion on the nature of alert. The options given to declare the results are 'True Positive' and False Positive'.

Events

Details of the event are shown in the main pane:

Even	ts			List View	Tree View
*	Show	Adaptive Event Name	Event Type	Score	
+	~	Suspicious System Process Creation	Create Process	6	

List View

- Show Click icon to view the event timeline. See 'Process Timeline' for more details.
- Adaptive Event Name Label given to the event when creating the security rule.
- Event Type The category of event
- Score The event severity. This was specified when the rule was created.
- Click anywhere in the row to view all event fields for that event type. The number of event fields shown depends on the event type.:

E	vents								List View	Tree View
		Show	Adaptive Event Nar			Event Type		Score		
-		~	Write to infectible F	ملا		Write File		2		
	File Pash File Hash		Di Khanni Yangi Ang Dani Albanning Mikromoki Windows Albanni. 23 Makalementi Salada Chembri 15 Al-Act VT 70 Hitto	Event Type Adaptive Great Hame Logged On Door Device Hame Divert Time Great Group	tobile Pile Millio to Infectible File Vega DEECTOP-TIPCOPR 2019-11-10 12:12:02 FILE	Process HD Process Der Domain Process Path Process Dath Hane Process Hash Process Creation Time	NAMA DESUTES-TEROSON CONVEXIONALISS Vilaga ADM-2006/05/05/05/05/25/25/25/25/25/25/25/25/25/25/25/25/25			
+		"	Write to Executable			Write File		5		

- Tree View
 - Click 'Tree View' link at top-right of 'Events' section



The screen shows the full process path of the event. Clicking any process label will open the 'Event Search' screen

with the event query auto-filled in the search field. See 'Event Search' for more details.

Zoom in or out using your mouse. Right-click and move the chart left or right. Click 'Reset Zoom' to
return to default view.

Process Timeline of the Event

Shows the various activities happening in an event for each file type

Timeline View

Click the 🖾 'Show in Process Timeline' icon of the event

Process Timeline										
Timeline Tree View	,								Reaet Zoo	m
	13 November 2018									
	12.45	12:50	12.55	0		01.05	01:10	01.15	01,20	
winlogon.exe										
userinit.exe										
Explorer.EXE (14)							• •	-		
							Process Network	k 兽 Registry 🔍 File 📢	Defenseplus 🕚 Browser	
	File Path File Hash	Chilaest/VegalAppDats/Rosming/Mic 23e58edcact93ebddc?ccdb21564dc?	rosoft:Win 6774319cb	Event Type Adaptive Event Name Logged On Usar Device Name Event Time Event Oroup	Write File Write to Infectible File Vega DESKTOP-TTPOOPR 2018-11-13 12-12-52 FILE		Process PID Process User Domain Process Path Process User Name Process Gestion Tr	5464 DESKTOP-TTPOSPR C:WINDOWS/Explorer EX Vops 409%2085855ec00554 2019/11-13 11-49:26	E 9669928x2%x65434047	
										4

The 'Process Timeline' screen will open

The screen shows the time at which each event occurred. See 'Process Timeline' for more details.

Tree View

- · Click the 'Show in Process Timeline' icon of the event
- Click 'Tree View'

Process Timeline		
Timeline Tree View		✓ Reast Zoom
		Of CAShare wildfire teat pe file
	Fundersea (5)	Children WegerläppOntal.co
	Circete Process (2)	🔅 CriwinDowiStaysten 221an
virisgen.zes 🚫 uservit.ses (2) 🚫	- Explorer EVE (1/2) (2)	Cristian in an anti-investigation of the second sec
	FILE (4)	🔝 CAlbersWegsLappDes/Los
		CAUserniVegalAppCets/Lo
		 Conserve the induced state

The screen shows the tree view of the event occurrences. See 'Process Timeline' for more details.

File Trajectory

The bottom section of the screen displays the movement of the file, that is from where it was downloaded, copied to which endpoint and so on.

File Trajectory									Reset Zoom
	23 May 2018 06:55:02 07 PM	PM 07;15	07;30	67;45	00 PM	68:15	66;30	00:45	23 May 2018 09. 09 PM
DESKTOP-7J8UVDU (4)									۵
edrwin732 (4)	Θ	۲							Ð
ANM0261 (3)			۵						ū
	Browser Download Copy To USB Disk Proces	 Copy From Copy From Cop	om Shared Folder Alert	Copy To S tection	ihared Folder	우 Email Download	🗄 Copy From U	ISB Disk	

- Zoom in or out using your mouse. Right-click and move the chart left or right. Click 'Reset Zoom' to return to default view.
- Details of the icons is shown below the graph.
- · Click an icon to view the trajectory details.

Browser Download	c		
Burnet Three	1	Adaptive Event Name	50
Event Time	l\po	Logged On User	
2018-05-23 18:55:02	38 -In	Event Time	
Process Hash		Event Group	
ef45d0c407d2987b2edb3dd76967e1b16bd6c1c8			
Process Path C:\Program Files\Mozilla Firefox\firefox.exe			
Path			
C:\Users\user\Downloads\pRt4JHhH.exe			
URL 🔺		07:30	
https://bit.ly/2H9HZJR			
edrwin732 (4 G	Ē		
ANM0261 (3)		٩	
 Browser Download Copy To USB Disk Process Cr 	 ⊡ Copy F ☑ Write Fi ■ eation 	from Shared Folder le Alert Dec.	

- Click 'X' to close the dialog.
- Click 'Process Creation' button to view time of process creation, event detected and alert generated.

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Click an icon color code to view trajectory details.

	Modify Firewall Settings	×		
7 PM 07 PM	Alert Time 2018-05-23T14:21:33.094Z Process Path C:\Users\user2\Downloads\pRt4jHhH.exe	30	09 PM 09:30	
<u>()</u>	Show detail		• •	
	• • (F)		ŧ	
 Copy From Copy From Copy From Copy From Copy Copy Copy Copy Copy Copy Copy Copy	om Shared Folder 🖹 Copy To Shared Folder	韓 Email Download	Copy From USB Disk	
ess Creation	Alert Detection			

- 'Show detail' link will be available for Alert dialog. Clicking the link will open the event details screen for which the alert was generated.
- Click 'X' to close the dialog.

Step 6 - Analyze Events

•

- The 'Event Search' interface lets you find specific events using built-in queries.
- cWatch ships with some useful sample queries, and you can construct your own queries.
- You have to create conditions for a search and configure the results table accordingly.
- · You can also use the search results to construct another query.
- Click 'Investigation' on the left then 'Event Search' to open the interface:

EDR	=			Upgrade Now	Welcome, edr@comodo.cor	m O B+Logo			
	Event Search Save Query Clear Fo	a							
000 Deshboard	pros_path = C:\WINDOWS\Explorer.EME								
Alerts	Overs Fields Genetary Samale Gueries Mr.	hering		∰ 2018-11	16 00:22:36 - 2018-11-16 00:22:33	V Q Search			
Policy Management	Search Results [Time : 2018-11-16 00:22:3	6.000 - 2018-11-16 00:22:37.000]							
Detection	Device Name	Process User Name	Proce	ess Path	Event Type				
Endpoints	6	• KURAYY	.	UNIT.EAE	• Will Pre	•			
Q Investigation									
» Event Search					[1]	II Select Field			
» Computer Search	# Show Event Time -	Device Name Process User Name	Process Path	Process Hash	Event Type	Adaptive Event Name			
> Hash Search	+1 🖊 2018-11-16-00:22:37:150	ANM0406 korayy	C:\WINDOWS\Explorer.EXE	408fe28868b5ac008b5df98b9928a	2fa6543d0d7 Write File	Write to Infectible File			
🛓 Download Agent	♦2 2018-11-16 00:22 36.146	ANM0406 korayy	C:\WINDOWS\Explorer.EXE	408fe28868b5ac008b5dF98b9928a	2fe6543d0d7 Write File	Write to Infectible File			

- By default, no custom queries are defined, allowing you search for all events that occurred during the last 3 days.
- Use the 'Query Fields' and 'Operator' links on the upper-left to build a custom event query.
- The first query field you add will automatically have the '=' operator appended to it (you can change this if required). You will need to enter the criteria after the operator.
- Any subsequent fields you add will automatically be prefixed with the 'AND' operator.
- All queries that you save will be listed under 'My Queries'
- 'Sample Queries' are pre-defined, example queries. These can be used as standalones, or adapted to produce a more complex search.
- 'Select Fields' on the right lets you configure the columns of the results table.
- You can change the date range using the link 2nd from the right.

The interface allows you to:

- Run a general event search
- Configure and run a custom query search
- Use sample queries
- View query results
- Configure results table column headers for a query

Run General Event Search

A general search returns all events recorded from all enrolled endpoints.

To run a general event search:

- Make sure the 'Search Box' field is blank.
- Use the time-range drop-down to pick a specific date or date range.

v Q Search 🛗 Last 3 Days 2018-06-03 11:35:47 2018-06-06 11:35:47 Last 15 Minutes 11 • : 35 • AM • Θ 11 T : 35 T AM T Last 30 Minutes Last 60 Minutes May 2018 Jun 2018 ults Last 12 Hours Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Last 1 Day Last 3 Days 10 Last 7 Days 19 Last 15 Days Last 30 Days Custom range Cancel Apply

- Click 'Custom range' to choose specific dates:
- Click 'Apply', then 'Search'

Event	Sear	ch								
Enter	your q	uery here								~
<u>Query Fie</u>	Mr Oo	erators <u>Sample</u>	Quertes My G	lueries				🗮 Last 15 Days	~	Q, Search
Search	Resul	ts (Time : 2018	05-22 12:18:1	9.347 - 2018-06-0	6121819.347]					
Devic	o Nario				Process User Name	Process Path		Event Type		
DESK	тор-ни	508N			SYSTEM	svchost.exe		Create Process		
edrvi	in732			•	Administrator 200	Bearchindexe: exe	205	Write File		- 240
DESK	TOP-7.J	UVDU				fretox.exe		Network Connection		
ANM	0261				USRF	NGenTask.exe	121	Set Registry Value		24
					user3			Browser Download		0
										III Select Fields
	Show	Event Time 🕳	Device Name	Process User Name	Process Path		Process Hash		Event Type	Adaptive Event Name
+1	*	2018-05-30 17:05:39.395	DESKTOP- HI950BN	Administrator	C:\Users\Administrator\Downloads\Comodo_EDR_Age	mLInstaller_1.1.258.3_8k3uAu5kQ.exe	f49d31c432224f67	23f56d7a28cd2203bda23e58	Write File	Write to Executable
+2	2	2018-05-30 17:05:28.488	DESKTOP- HI950BN	Administrator	C:\Users\Administrator\Downloads\Comodo_EDR_Age	nt_Installer_1.1.258.3_8k3uAu5kQ.exe	f49d31c432224f67	23f56d7a28cd2203bda23e58	Write File	Write to Executable
+3	10	2018-05-30 17:05:27.285	DESKTOP- HI9508N	Administrator	C:\Users\Administrator\Downloads\Comodo_EDR_Age	nt_Installer_1.1.258.3_Bk3uAu5kQ.exe	f49d31c432224f67	23156d7a28cd2203bda23e58	Write 210	Write to Emeritable

The results for the selected period will be displayed. See 'View Query Results' for more information.

Configure and Run a Custom Query Search

You can search for particular events by building custom queries.

· Click 'Query Fields' then select an event type to begin constructing a custom event query:

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Event Search	
Enter your query here	
Query Fields Operators Sample Queries My Queries	
Adaptive Event Name adaptive_event_name	18-06-06
Command Line child_prcs_cmd_line	
Destination IP ntw_dst_ip	
Destination Port ntw_dst_port	Ŗ
Device Name prcs_device_name	5
Downloaded File Hash brws_file_hash	
Downloaded File Path brws_file_path	
Elevation Type child_prcs_elevation_type	
Event Group event_group	s User
Event Identifier id	
Event Time event_time	strator ▼
+2 ~ 2018-05-30 DESKTOP- Adm 17:05:28.488 HI950BN	ninistrator

- Alternatively, click in the search box and use short cut keys 'Ctrl + space'. Select an event field from the list.
- Repeat the process to add more event fields for the query. The 'AND' operator will be automatically added to any subsequent fields you add.
- Click 'Operators' link and select the operator from the drop-down. You can also enter the operator manually.

daptive_e	vent_name = Write to	Executable
uery Fields (<u> Derators</u> <u>Sample Queries</u>	<u>My Queries</u>
earch Re:	EQUALS =	18:19.347 - 201
	NOT_EQUAL !=	
Device Na	GREATER >	
DESKTOP-	GREATER EOUAL >=	
edrwin732		
DESKTOP-	SMALLER <	25
ANM0261	SMALLER_EQUAL <=	24
	CONTAINS ~	

• Enter the relevant details of the event fields.

The following example shows a search for 'Adaptive Event Name' = 'Run Untrusted Executable' AND 'Device Name' = 'DESKTOP-7J8UVDU':

Event Se	earch	Save Query	<u>Clear Field</u>		
adaptive_	event_na	me = Run Unt	rusted Executable	AND prcs_device_name = D	ESKTOP-738UVDU
Query Fields	Operators	Sample Querie	s <u>My Queries</u>		

· Next, select the time period for the custom query and click 'Search'

The search results for the custom query will be displayed:

adapt	tive_e	vent_name = Run Un	trusted Executabl	le AND prcs_device_r	ame = DESKTOP-7380VDU				×	
Owery F	iekte i	Operators Sample Over	ies My.Queries					🛄 Last 15 D	nya 👻 🔍 Search	
Searc	:h Res	ults [Time : 2018-05-2	2 12:18:19:347 - 2018	06-06 12:18:19.347]						
Dev	rice Nar	ne		Process User Name	Process	Path	Event Typ	e .		
DESKTOP-7J8UVDU		user3	pRt4jH	2pRt4jHhH.exe Of Create			ete Process			
					explore	r.exe · · · · · · · · · · · · · · · · · ·				
									III Select Fields	
	Show	/ Event Time +	Device Name	Process User Name	Process Path	Process Hash		Event Type	Adaptive Event Name	
+1	~	2018-05-23 21:26:26.524	DESKTOP- 7J8UVDU	user3	C:\Users\user3\Downloads\pRt4JHhH	exe 27d99fbca067f478bb91cdbcb92f13a8	28600859	Create Process	Run Untrusted Executable	
		2018-05-23	DESKTOP-	user3	C:\Windows\explorer.exe	f7152a8cb963cefdfa65d35a3565c354	90223a26	Create	Run Untrusted	

Please note the results for the query will also display details for other fields also. See 'View Query Results' for more information.

You can also build custom queries using the search results. See the topic 'Event Search' for more information.

Use Sample Queries

EDR ships with built-in sample queries that are often used. This also serves as examples for you to create more complex queries.

• Click 'Sample Queries' link below the search box

 Event Search

 Query Fields
 Operators

 Search Results [Tim

 Device Name

 edrwin732

 List Registry Events Shows all network events

 List File Events Shows all registry events

 List File Events Shows all defense plus events

 List Defense Events Shows all defense plus events

 List Browser Events Shows all browser events

The sample query will be automatically updated in the 'Search Box'.



Select the time-period and click 'Search'

Events matching the sample query will be displayed. See 'View Query Results' for more information.

View Query Results

EDR stores the generated events on the cloud and these can be fetched anytime from anywhere using an internet browser. You can use these events for data analysis and take remedial actions on endpoints. The query results will be displayed depending on the type of query search.

A summary of the search results is shown on separate tiles at the top. Results for each event are displayed below.

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Event Search ery.Fields Operators Sample-Oweries My.O Search Results [Time : 2018-05-07 12:18:19.247 - 2018-06 Process Use Device Name Process Patt Event Type 917 240 42 DESKTOP-HI950BN SYSTEM sychostieve Create Proc 8 290 266 Admin .Searchinde Write File DESKTOP-7J8UVD ā 8 firefax.exe 24 45150761 24 8 Ref IN 63 Ð user? II Select Field Adapt Event Name Dancese Dat Турк 2018-05-30 DESKTOP Write to ÷ With Admi f40/31 c43222 17:05:39:395 HI950BN Executable Write to Executabl

Summary Search Results

E	vent Search				
	Enter your query here				~
9	very Fields Operators Sample Overles My Querles	Event Field	s Event Datails	🗮 Last 30 Days 🔍 🗸 🗸	, Search
s	earch Results [Time : 2018-05-07 12:18:19.347 - 2018-06	06 12:18:19:347]	1		
	Device Name	Process User Name	Procesa Path	Event Type	
	DESKTOP-HI050BN	SYSTEM (772)	svchost.exe (341)	Create Process	907
	edrwin722	Administrator · · · · · · · · · · · · · · · · · · ·	. Searchindeser.exe	Write File · · · · · · · · · · · · · · · · · · ·	- 240
	DESKTOP-7J8UVDU		firefox.exe	Network Connection	- (3)
	ANM0261	uzirēt	NGenTask.exe	Set Registry Value	
		user3 🗃	services.exe 0	Browser Download	•
	-				

- The number beside each event detail indicates the total number of events recorded for that item.
- Clicking an event detail under an event field will display only the results pertaining to those items.

Event List

The lower section below the tiles displays the results for each event.

#	Show	Event Time 🗸	Device Name	Name	Process Path	Process Hash	Event Type	Name
+ 1	1	2018-05-30 17:05:39.395	DESKTOP- HI950BN	Administrator	Comodo_EDR_Agent_	f49d31c432224f6723f56d7a28cd2203bda	a23e58 Write File	Write to Executable
- 2	*	2018-05-30 17:05:28.488	DESKTOP- HI950BN	Administrator	Comodo_EDR_Agent_	149d31c43222416723156d7a28cd2203bda	a23e58 Write File	Write to Executable
	File Path File Hash	C: \Usera\Administ 71f22c5072aee5c	rator\AppData\Local\Tem 4c7a608fbbd49a5023499	Event Type Adaptive Event Name Logged On User Device Name Event Time Event Group	Write File Write to Executable Administrator DESKTOP-HI950BN 2018-05-30 17:05:28 FILE	Process PID Process User Domain Process Path 149d316432246727355d7a285d7 203bda23e58 Add To Query	924 DESKTOP-HI950BN C:\Users\Administrater\Dowr Administrator F44c\$1c-K32224f6723_pod?/ 2018-05-30 17:05:26	iloads/Comodo_EDR_Ag i28od2203bda23e58

- Clicking an event row will display all the event fields for that event type. The number of event fields displayed depends on the event type.
- Clicking an event detail beside an event field will display only the results pertaining to those items.
- Clicking the 📶 icon in the 'Show' column for an event will display its timeline.

Configure Results Table Column Headers for a Query

You can configure the results table to show columns which are important to your custom query. You can also view all

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the event fields pertaining to your search by clicking the '+' sign beside a query result.

• Click 'Select Fields' on the right to configure the result table columns:

eld Selection		Event Type	× ·····947
All Fields	80	Selected Fields	240 42 24
☑ Adaptive Event Name		1. Event Time	Field Selection
🖯 Command Line		2. Device Name	III Select Field
Destination IP		3. Process User Name	nt Event e Name
□ Destination Port		4. Process Path	te Write to
C Device Name		5. Process Hash	te Write to
🗆 Downloaded File Hash		6. Event Type	Executable
Downloaded File Path		7. Adaptive Event Name	
□ Elevation Type			
🗆 Event Group			
🖯 Event Identifier			
🕑 Event Time			
Cuant Tuna			
Cancel			🖺 Ok

A check-mark is shown next to currently enabled fields. A 'field' in this sense is a column in the results table.

- Click the checkbox beside an individual field to enable or disable it.
- To display all fields, click S at the top
- To hide all fields, click = at the top.
- All enabled fields are shown on the right, with field # 1 being the first column on the left. Click and drag a particular field to re-position it in the table.
- Click 'Ok' when done.

Your selected fields will be shown as columns in the query search results. The same fields will also be shown for the results summary tiles above the 'Event List' results table. The results summary will not display the 'Event Time' field since this available beside 'Search Results' by default.

earch	Resul	its [Time : 2018	05-07 12:18:1	9.347 - 2018-06-0	Broose line line	Broose Bath	_	Ewert Turns		
DESK edrvi DESK ANM	(TOP-HIS In732 (TOP-7.18 0261	150BN			SYSTEM (1) Administrator (2) User (2) User (2) User (2) (2)			Create Process Write File Network Connection Set Registry Value Browser Download		917 240 41 42 42 43 43 44 43
,	Show	Event Time -	Device Name	Process User Name	Process Path		Process Hash		Event Type	Adaptive Event Name
+1	*	2018-05-30 17:05:39.395	DESKTOP- HI950BN	Administrator	C:\Users\Administrator\Downloads\Comodo_EDR_Age	nt_Installer.,1.1.258.3_8k3uAu5kQ.exe	f49d31c432224f6	723f56d7a28cd2203bda23e58	Write File	Write to Executable
4.2	-	2018-05-30	DESIGNE.	Administrator	Cillipare) Edministratori Downloade) Comedia EDD Ana	of installer 1 1 258 2 RESultable ave	140491-49222405	219/56/7528/d2109/d528/58	MARINO	Write to

Tip. You can still view all event fields for a result by clicking the number beside a event result row:

a	s	how	Event Time 🚽	Device Name	Process User Name	Process Path	1			Process Hash		Event Type	Adaptive Event Name
51)	•	2018-05-30 17:05:39.395	DESKTOP- HI950BN	Administrator	C:\Users\Adn	ninistrator\Downloads\	Comodo_EDR_Agent_Installer.	.1.1.258.3_Bk3uAu5kQ.ex	e f49d31c432224f	723f56d7a28cd2203bda23e58	Write File	Write to Executable
4	Sh	iow t	Event Time 🗸	Device Name	Process User Name	Process Path				Process Hash		Event Type	Adaptive Event Name
-1	*		2018-05-30 17:05:39.395	DESKTOP- HI950BN	Administrator	C:\Users\Adm	inistrator\Downloads\C	comodo_EDR_Agent_Installer_1	1.1.258.3_BkJuAu5kQ.exe	f49d31c432224f6	723/56d7a28cd2203bda23e58	Write File	Write to Executable
e F	ile Pat	éh Ish	C.YUe 00000	ers/Administrat 200000000000000	or'AppDeta'iLooshi 000000000000000000	Temp1/721p51	Event Type Adaptive Event Nome Logged On User Device Name Event Time Event Oroup	Write File Write to Executable Administrator DESKT0P+#8508N 2018/05-38 17:05:39 FILE	Pro Pro Pro Pro Pro Pro	sceas PID roess User Domain roess Path sceas User Name sceas Hash sceas Hash sceas Creation Time	3648 DESKTOP-Hr950EN C:XUsersi-Administrator/Downloads/Cor Administrator fa94d3164322246723556478286422038 2018-85-80 17:05:23	nodo_EDR.J da23e58	Agent.ins

The number of event fields displayed in the detailed results depends on the event type.

See 'Event Search' topic if you need more help with this.

Step 7 - Investigate Events on Computers

The 'Computer Search' screen shows events recorded on all endpoints added to EDR. Details include event trends, network connection events, malware detection events and so on.

· Click 'Investigation' on the left then 'Computer Search' to open the interface

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EDR EVatch	Ξ	Upgrade Now Welcome, edr@comodo.com Ø 🕪 Log ou							
	Computer Search								
20 Dashboard	ANM0406								
Alerts	Logged On User: konyy Endpoint Version: 1.1.239.0 Connection Status: Disconnected	Last Seen : 2018-08-16 16:22:00 Last Reboot : 2018-08-16:01:57:01 Operating System :							
Policy Management	Windows 10 or Later 54 bit platform								
Detection	Local and External IP Changes	Unique Users Logged on							
C Factorian	# External IP Local IP 1 Local IP 2 Local IP 3 Time	# Username Last Seen							
- Endpoints	1 213.14.87.114 172.18.223.65 10.100.132.121 0.0.0.0 2018.08-10.21:40.51	1 korayy 2018-07-13 19:45:19							
Q Investigation	2 213.14.87.114 172.18.223.65 0.0.0.0 0.0.0 2018.08-10.12:54:58	2 2018-06-30 22:09:50							
Event Search	3 213.14.87.114 172.18.223.65 10.100.132.121 0.0.0.0 2018-08-02.12:38:42	Total Count : 2, Page 1 of 1							
	4 213.14.87.114 172.18.223.65 10.100.139.52 0.0.0.0 2018-07-3018-03-25								
 B Hash Search 	Totel Down: 12. Pege 1 of 3								
🛓 Download Agent	Network Connections 👘 Laer 3 Days 👻	Admin Privilege Usage 👘 Lett 3 Days 👻							
	Mahware Detections 💼 Last 3 Days 👻	Event Trend (Clok and drag in the plot area to zoom in) 📋 Last 3 Days 👻							
		0 							

By default, the screen will be empty with the search range set for the past 3 days.

- Click inside the search field above the data tiles, then:
 - Select an endpoint from the list from the list to view data about the device.
 - · You can search for specific endpoints if required
- Use the time-range drop-down to show event info for specific dates (applies to Network Connections, Admin Privilege Usage, Malware Detections and Event Trend tiles).
- Click 'Apply'.

Information about the selected endpoint is shown directly below the search box:

Computer Searc	h		
DESKTOP-7J8UVDU			-
Logged On User: ops 64 bit platform	Endpoint Version: 2.1.258.0 Connection Status: On	ine Last Seen : 2018-05-24 22:28:55 Last Reboot : 2018-05-24 21:28:59 Oper	rating System : Windows 10 or Later
Local and Extern	al IP Changes	Unique Users Logged on	

The six tiles in the main section contain data about events on the endpoint:

- Local and External IP Changes Changes to the endpoint's local IP and external IP.
- Event Trend Number of events on the endpoint for the selected time-period. You can zoom the timeline by clicking and dragging on the graph. Place your mouse cursor on a point in the line to see events for a specific day.
- Unique Users Logged on Most recent login times of every user that has logged onto the endpoint.

- Admin Privilege Usage Events that required admin privileges.
- Network Connections Network connection events for the selected time-period.
- **Malware Detections** Threat detection events on the endpoint. Click a hash signature to view full details in the 'Hash Search' interface.

See 'Computer Search' topic if you need more help with this.

Step 8 - Analyze Files by Hash Values

- A hash search lets you locate files by their MD5 or SHA-1 hash value. Visibility, execution trend, file history and execution summary are listed for each file.
- Unlike the 'Event' and 'Computer' interfaces, you cannot simply search for a hash. You must either
 - (i) Copy and paste a hash value from the dashboard, detection or event search interfaces, or
 - (ii) Click a hash-value link in the dashboard or 'Computer Search' screens. This will auto-populate the search interface.
- Click 'Investigation' on the left then 'Hash Search' to open the interface.

EDR	=					Up	igrade Now Welcor	ne, Demo Premium	0+ Log out
<i>a</i>	Hash Search								
ong Dasnboard	8233bfbeb1390ed8959255a8a43	7b8e76f10d2bc							۹
Alerts	File Names (last 3 days) File	e Turser - Verdiet	Malazza Enfra	Dvint: atrado722	First Seen for: 2012-05-2	0.15-06-07 advant.727	Last Seen On: 2010	45.54.55.58.50 DESETTE	
Policy Management	7.BIVDU Seen Dn: 3 devices	Detection Time: 2	018-04-17 21:48-03		The area on 211703	a in an an a	Last John Co. 2010		
U Detection	File Trajectory							B	eset Zoom
Endpoints		23 May 2018 19:30	19:45	20	20:15	20:30	20.45	21	21,15
Q Investigation	DESKTOP-7JBUVDU (1)								
Event Search	ANM0261 (1)		Ð						
Computer Search	edrwin722 (1)	2							
> Hash Search									
L Download Agent		 Browser Download Copy From USB Dia 	En Copy From S k 🗐 Copy To US	hared Folder 🛛 🖻 18 Disk 🗋 Write I	Copy To Shared Folder File	वृत्र Email Downloa	d		
		Proce	ss Creation 👘 🤌	dert Detection					
	e George a Meaning		想 1.85	3 Davs 9	Download Su	mmary		🏥 Last 30 Day	s 91 2

- By default, the screen will be blank
- Enter the hash value of the file you wish to analyze. Hash values of malware and safe files can be copied from various interfaces such as:
 - 'Dashboard' > 'Malware & Suspicious Activity' tile > under 'Most Found Malware' and 'Last Found Malware'
 - 'Detection' > in the 'Sha1' column
 - 'Investigation' > 'Event Search' > in the 'Process Hash' column
- Click a hash value on any of the screens above to automatically populate the search box here.
- Use the time-range drop-down to show event information for a specific date range (applies to 'Execution Summary', 'Download Summary', 'Creation Summary' and 'Execution Trend' tiles)

Results are shown below the search box:

Hash Search	
8233bf6e61390ed8959255a8a477b8e76f10d2bc	٩
File Names (last 3 days): File Type: - Verdict: Malware Entry Point: edmin732 First Seen On: 2018/05/23 19/26/27, edmin732 7.38UVDU Seen On: 3 davious Detection Time: 2018/04-17 21/48/03 Entry Point: edmin732 First Seen On: 2018/05/23 19/26/27, edmin732	Last Seen On: 2018-05-24 22-28-58 , DESKTOP-
File Trajectory	Reset Zoom

The results screen shows the following details about the file:

- File Trajectory The movement of the file where it was downloaded from, where it was copied to, and so on.
- **Execution Summary** Devices on which the file was executed. Details include the file path and the number of times it was executed.
- **Download Summary** Which endpoints the file was downloaded to ('Entry Point'), the URL it was downloaded from, and the number of times it was downloaded.
- Creation Summary Endpoints on which the file created processes, and the file location.
- **Execution Trend** The number of times the file was executed during the selected period. Zoom into specific hours by dragging any point on the graph.

See 'Hash Search' if you need more help with this.

Step 9 - View Process Timeline of Events

The 'Process Timeline' shows all processes spawned by an event.

You can view the timeline in two ways:

Event Search

- Go to 'Investigation' > 'Event Search', select a time-period and click 'Search'.
- Click the timeline icon in the 'Event List' section.
- Alternatively, enter an event ID manually to view its timeline.

Alerts

- Go to 'Alerts' then click 'Show Alerts' in a row.
- Click the timeline icon *in the 'Event List' section.*

The timeline of the selected event will be shown:



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You can view the details in timeline or tree view.

Timeline View

The timeline view is the default view:

Process Timeline												
Timeline Tree Vie	w											Reset Zoon
	23 May 2018 06:4	42:31 PM									23 May 20)18 07:42:31 PM
	06,45	08.50	06,55	67 (94	07,05	07,10	07,15	07,20	07,25	07,30	07;35	07,40
wininit.exe												
explorer.exe (4)			• •					•	•			
_									Process ●	Network 😑 Registr	y 🔍 File 🔍 Defen	seplus 🖲 Browser
	Hie Puth C Hie Heah 3	:///sers/wser//Downloa (2336/6e61390e68959	ds/Jouspiciou 255e8e477b8	Event Type Adaptive Event Name Logged On User Device Name Event Time	Write File - user ed/wii/32 2016/05/23/19	24.57		Process P Process U Process P Process U Process H	D ser Domain eth ser Name ash	7085 editwin732 C:UMindowshatepfore USEr f/7152a8cb763ccfcfi	1.010	3426
L				Event Group	RUE			Process C	reation Time	2018-06-23 19:01:0)		

- The time-line shows processes generated by the event over time.
 - Results are shown for processes generated 30 minutes before and after the event.
 - For example, if an event started at 11.00 AM, results are shown from 10.30 AM to 11.30 AM
 - The timeline of the event is shown at the top with date and time preselected.
- Executables opened by the event are shown by the down arrow on the left.
 - The number beside a process name shows the quantity of events created by the process.
 - Click on a process to view process name, time-stamp, hash, path and verdict:



Details about the event (created by the process) are shown in the box below the process path.

• The event types are color coded and displayed above the event details box.

•		Event details box	Color	es i	
		• ^		1	
			Process	🔍 Network 🔎 Registry 🔍 Fil	e 😑 Defenseplus 🔎 Browser
File Path	C\Users\Adr	ninistrator\AppData\Local\Temp\72ipSf_	Event Type	Write File	Process PID
File Hash	f1b27748d69	13167c13f64313a8a1d1dcb4459c8	Adaptive Event Name	Write to Executable	Process Use
			Logged On User	Administrator	Process Pat
			Device Name	DESKTOP-HI950BN	Process Use
			Event Time	2018-05-30 17:05:24	Process Has
			Event Group	FILE	Process Cre

• Event details show all event fields for that event type. The number of event fields displayed depends on the event type.

Tree View

- Click the 'Tree View' tab.
- The view shows process activity as a sequence of parent/child events:



- Use mouse to zoom in and zoom out. Click 'Reset Zoom' to default view.
- The number beside a process name indicates the number of events generated by the process.
- Click a process name to view full details about it in the 'Event Search' screen.

About Comodo Security Solutions

Comodo Security Solutions is a global innovator of cybersecurity solutions, protecting critical information across the digital landscape. Comodo provides complete, end-to-end security solutions across the boundary, internal network and endpoint with innovative technologies solving the most advanced malware threats. With over 80 million installations of its threat prevention products, Comodo provides an extensive suite of endpoint, website and network security products for MSPs, enterprises and consumers.

Continual innovation and a commitment to reversing the growth of zero-day malware, ransomware, data-breaches and internet-crime distinguish Comodo Security Solutions as a vital player in today's enterprise and home security markets.

About Comodo Cybersecurity

In a world where preventing all cyber-attacks is impossible, Comodo Cybersecurity delivers an innovative cybersecurity platform that renders threats useless, across the LAN, web and cloud. The Comodo Cybersecurity platform enables customers to protect their systems and data against even military-grade threats, including zero-day attacks. Based in Clifton, New Jersey, Comodo Cybersecurity has a 20-year history of protecting the most sensitive data for both businesses and consumers globally. For more information, visit comodo.com or our **blog**. You can also follow us on **Twitter** (@ComodoDesktop) or **LinkedIn**.

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