How to- Configure RWTD (Remote Workforce Threat Detection) Knowledge Packs

EventTracker v9.3
Abstract

This guide provides instructions to configure RWTD knowledge packs. Once EventTracker is configured to collect and parse logs, dashboard and alerts can be configured for remote workforce threat detection.

Scope

The configuration details in this guide are consistent with EventTracker version 9.3.
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1. Overview

Work from home or outside the office requires a remote connection to the organization's VPN. This increases the vulnerability risk of the organization's network. To combat the rapid increase in the remote workforce threat, EventTracker generates alerts using firewall devices descriptions. Alerts can be configured for remote workforce threat detection.

2. Prerequisites

- **EventTracker v9.3** should be installed.
- **PowerShell 5.0** should be installed on the EventTracker Manager.
- Latest Knowledge Object files having version number 3.0.
- Latest golden image or ET93U20-8009.
- Following are the products which we support for RWTD Knowledge packs.

<table>
<thead>
<tr>
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</tr>
<tr>
<td>Firewall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SonicWall UTM Firewall</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3. Importing Knowledge Packs for Remote Workforce Threat Detection

3.1 Knowledge Objects

1. Click **Knowledge objects** under the Admin option in the EventTracker manager page.
2. Locate the respective product folder in `%et_install_path%\Knowledge Packs` and locate file named `KO_<Supported product name>.etko`.

**Note:** If the folder name is not available, kindly install the update ET93U20-8009.
3. Now select all the checkbox and then click `Import`.

4. Knowledge objects are now imported successfully.
5. Please follow the above steps to download the KO’s on other devices. RWTD package will contain KO for the supported devices.

6. Once KO’s are imported for the required devices, check the KO version.

3.2 Dashboard

In EventTracker 9.3, we have added a new feature to import/export the dashlet. Following is the procedure.

1. Login into EventTracker Web console.
2. Go to **My Dashboard** option.

![Image of My Dashboard option](image)

**Figure 6**

3. Click **Import** and select Dashboard\_VPN.etwd file from %et_install_path%\Knowledge Packs\RWTD\Configuration.

![Image of Import option](image)

**Figure 7**
4. Click upload and select **Dashboard** you want to import.

5. Click **Import** to upload all the selected dashboards.

6. Follow the above steps to import the required dashboards from the same path.
3.3 Alerts

Steps to import the alerts.

1. Launch the EventTracker Control Panel.
2. Double click Export Import Utility, and then click the Import tab.

![EventTracker Control Panel](image1)

Figure 10

3. Click the Alert option, and then click Browse...

![Export Import Utility](image2)

Figure 11
4. Locate the respective product folder in %et_install_path%\Knowledge Packs\ and locate file named Alert_<Supported product name>.isalt, and then click Open.

5. To import alerts, click Import. EventTracker displays a success message.

![Figure 12](image)

6. Click OK, and then click Close.

Kindly follow the above steps to import the alerts on other devices.

### 3.3.1 Custom Alert

For custom alert, follow the instructions given below to add console side remedial action.

**Note:** The latest golden image or Update ET93U20-8009 should be installed.

1. Login to EventTracker manager console.
2. Go to Admin > Alert.
3. Search for Custom alert e.g. Sophos XG Firewall: VPN login failed.

![Figure 13](image)

4. Edit the alert and go to Action tab > Console Remedial Action and in file section, and add the following location

"%et_install_path%\ScheduledActionScripts\Suspicious Login\SuspiciousLogin.exe"
3.3.2 Importing RWTD alerts

To import RWTD alerts

1. Launch the EventTracker Control Panel.
2. Double click Export Import Utility, and then click the Import tab.
3. Click the Alert option, and then click Browse.
How to Configure RWTD Knowledge Packs

Figure 16

Locate **Alerts_RWTD.isalt** file from 
%et_install_path%\KnowledgePacks\RWTD\Configuration\Alerts_RWTD.isalt

4. Click **import** to complete the configuration.
5. Login to EventTracker manager console.
6. Go to **Admin > Alert**.

There are 4 new alerts are available in the alert management.

- Geographically improbable access detected
- Login activity from blacklisted location
- Suspicious multiple login attempts from same IP address
- Email with pandemic or corona subject

7. The default SuspiciousLogin.config is given in the update to parse username and IP address for the RWTD alerts. The below steps are given only for the custom alerts if want to extract the username and IP address from them.
8. Now, register the alert in SuspiciousLogin.config with its regex for parsing username and IP address.
9. In EventTracker manager, go to following location.
   %et_install_path%\ScheduledActionScripts\Suspicious Login.
10. Open SuspiciousLogin.config file and add the section as show below.

Sample Configuration

```xml
<alert Name='Sophos XG Firewall: VPN login failed'>
  <activities>
    <Simult available='true'/>
    <multiuser available='true'/>
    <blacklist available='true'/>
  </activities>
  <regex>(?s)ClientIP\s=\s(?&lt;LoginIP&gt;[^s]+).*?UserId\s=\s(?&lt;Username&gt;[^s]+)</regex>
</alert>
```

11. If facing any issue with regex creation, kindly contact Security Intelligence team with sample Log.
3.4 Machine Learning Jobs

1. Launch the EventTracker control panel.
2. Click on Export import Utility > Import tab.

![Figure 17](image)

3. Click on Machine learning and Browse for ML_RWTD.is rule file in following location %et_install_path%\Knowledge Packs\RWTD\Configuration. Once Machine learning jobs are imported. It will display the follow message.

![Figure 18](image)

4. Click OK to complete the importing.
4. **RWTD Alert/Dashboard Details**

4.1 **Applicable Log Sources**

The alerts and dashboards are available for 3 types of log sources which are as below.

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</tr>
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4.2 **Use Cases**

By providing the alerts and dashboards, we are trying to solve the following use cases which the enterprises are on the lookout.

**VPN Devices**

- Successful Logins from rare/unexpected Countries
- Geographically improbable access (when the same account is logged into in a short time period from distant locations)
- Password Spraying (brute force attack)
- Too many failed VPN logins
- How many logins happened in a day?
- Which specific user is having too many login failures?

**Cloud Suite**

- Successful Logins from rare/unexpected Countries
- Geographically improbable access (when the same account is logged into in a short time period from distant locations)
- Password Spraying (brute force attack)
- Admin activities with changes to forwarding rules, permissions, admin account created
- Downloads from cloud shared drives

**Authenticator**
How to Configure RWTD Knowledge Packs

- Successful Logins from rare/unexpected Countries
- Geographically improbable access (when the same account is logged into in a short time period from distant locations)
- Password Spraying (brute force attack)
- Admin activities like adding new user, privilege escalation, adding user to a group etc.
- First login to an asset.

### 4.3 Sample Alerts

<table>
<thead>
<tr>
<th>Alert Name</th>
<th>Login activity from blacklisted location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Event ID</td>
<td>11010</td>
</tr>
<tr>
<td>Source</td>
<td>EventTracker</td>
</tr>
<tr>
<td>Description</td>
<td>Login activity from blacklisted location. Source: Office 365 login activities</td>
</tr>
</tbody>
</table>

- IP Address: 14.1.104.10
- Country Code: PK
- Country Name: Pakistan
- Subdivision Name: Karchi
- City: Karchi

Source Description:
CreationTime = 2020-04-22T04:15:58 Id = 10c5a1a3-4413-4250-ac1af424be32bc17 Operation = UserLoggedIn OrganizationId = 0ac05f5c-4238-4951-89a8-2b5e518805f0 RecordType = 15 ResultStatus = Succeeded UserKey = 1003200549D77B7@eventtracker.com UserType = 0 Version = 1 Workload = AzureActiveDirectory ClientIP = 14.1.104.10 Objectld = 00000004-0000-0ff1-ce00-000000000000 Userld = Mike@Contoso.com AzureActiveDirectoryEventType = 1 ExtendedProperties = [ ] Name = UserAgent Value = Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:75.0) Gecko/20100101 Firefox/75.0 Name = UserAuthenticationMethod Value = 9 Name = RequestType Value = OAuth2:Authorize Name = ResultStatusDetail Value = Redirect ... ] ModifiedProperties = [ ] Actor = [ | ID = 44a8954a-d1e4-4d0c-bd4ad363352ed751 Type = 0 ID = Sana.b@eventtracker.com Type = 5 ID = 1003200549D77B7 Type = 3 | ActorContextId = 0ac05f5c-4238-4951-89a8-2b5e518805f0 ActorIpAddress = 182.74.234.198 InterSystemsId = 92f0269a-ebe4-48eb-9608-59958ce1dfeee IntraSystemId = f527161c-0887-429a-9ba3-7ec2ea0d3e00 SupportTicketId = Target = [ | ID = 00000004-0000-0ff1-ce00-000000000000 Type = 0 } TargetContextId = 0ac05f5c-4238-4951-89a8-2b5e518805f0 ApplicationId = e48d4214-364e-4731-b2b6-
<table>
<thead>
<tr>
<th>RecordTypeName = AzureActiveDirectoryStsLogon UserType Name = Regular</th>
</tr>
</thead>
</table>

**Applicable to**
VPN devices, O365, GSuite, OKTA SSO, DUO SSO, Windows, Azure AD

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### Suspicious multiple login attempts from same IP address

<table>
<thead>
<tr>
<th><strong>Alert Name</strong></th>
<th>Suspicious multiple login attempts from same IP address</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Event ID</strong></td>
<td>11012</td>
</tr>
<tr>
<td><strong>Source</strong></td>
<td>EventTracker</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Multiple login attempts from same IP address.</td>
</tr>
<tr>
<td></td>
<td>Source: Duo Security: Login activities</td>
</tr>
<tr>
<td></td>
<td>IP Address: 14.1.104.10</td>
</tr>
<tr>
<td></td>
<td>Accounts Logged In:</td>
</tr>
<tr>
<td></td>
<td>Freddie Gallagher</td>
</tr>
<tr>
<td></td>
<td>John</td>
</tr>
</tbody>
</table>

**Applicable to**
VPN devices, OKTA SSO, DUO SSO, Windows, Azure AD

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### Geographically improbable access detected

<table>
<thead>
<tr>
<th><strong>Alert Name</strong></th>
<th>Geographically improbable access detected</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Event ID</strong></td>
<td>11011</td>
</tr>
<tr>
<td><strong>Source</strong></td>
<td>EventTracker</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Geographically improbable access detected.</td>
</tr>
<tr>
<td></td>
<td>Source: Duo Security: Login activities</td>
</tr>
<tr>
<td></td>
<td>User: Freddie Gallagher</td>
</tr>
</tbody>
</table>

Previous Login:
- Date Time: 2020-05-04 02:35:30
- IP Address: 199.188.93.188
- Country: United States
- Subdivision Name:
- City:

Current Login:
- Date Time: 2020-05-04 02:36:00
- IP Address: 14.1.104.10
- Country: Pakistan
- Subdivision Name:
- City:

**Applicable to**
VPN devices, O365, GSuite, OKTA SSO, DUO SSO, Windows, Azure AD

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Other existing alerts like login failure and anomalous login attempt will also be used as part of this offering.
4.4 Dashboards

- VPN Dashboard

![VPN Dashboard](image19)

Figure 19

- Cloud Suite Dashboard

![Cloud Suite Dashboard](image20)

Figure 20
• Authenticator Dashboard

![Figure 21](image-url)