

Quest® InTrust 11.5.1

Preparing for Auditing TPAM



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Legend

-  **CAUTION: A CAUTION icon indicates potential damage to hardware or loss of data if instructions are not followed.**
-  **IMPORTANT, NOTE, TIP, MOBILE, or VIDEO: An information icon indicates supporting information.**

InTrust Preparing for Auditing TPAM

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TPAM Auditing Overview

In enterprises Quest Total Privileged Access Management (TPAM) appliance controls privileged identity management and privileged access control in order to meet highest compliance and security requirements. Providing comprehensive auditing of privileged user activity across all of the systems managed by TPAM is vital for raising individual accountability and achieving compliance goals set by external regulations and internal security policy requirements. InTrust complements TPAM auditing capabilities by collecting logs produced by TPAM and correlating them with other native logs residing on Windows and Unix/Linux systems.

InTrust can help you track sys-admin and user activity recorded by TPAM, password and session requests from TPAM users, and also monitor TPAM appliance state. This is enabled through configuring InTrust to collect TPAM logs transmitted to a Syslog server.

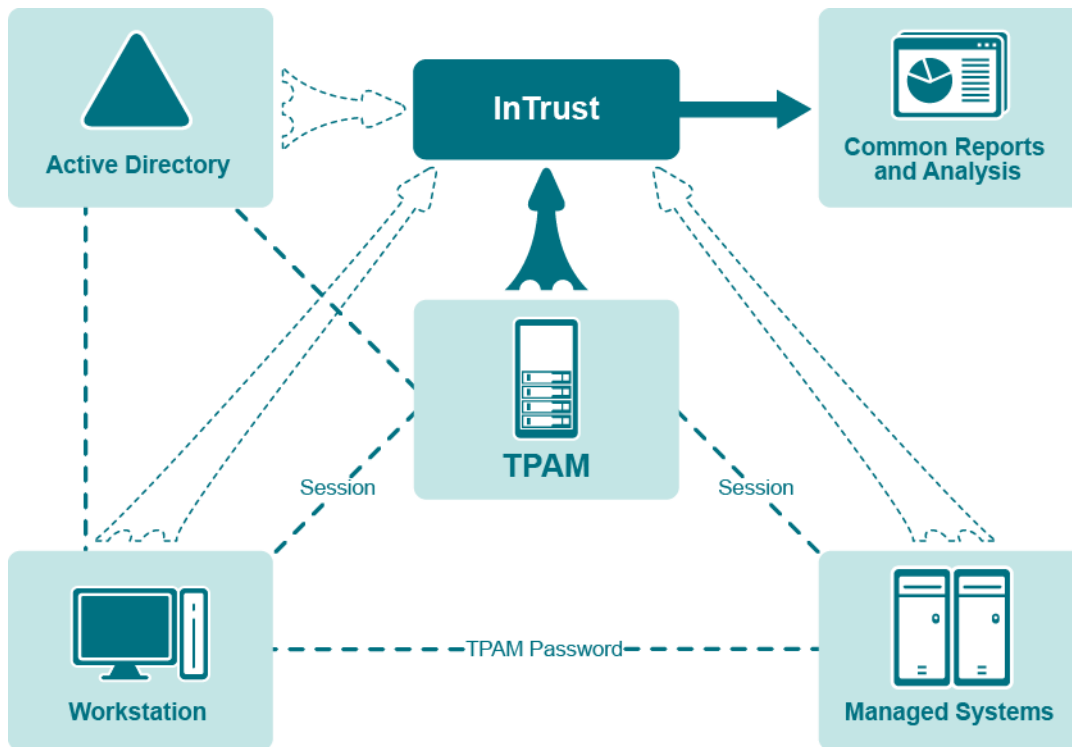
To integrate InTrust with TPAM, use the InTrust Knowledge Pack for TPAM that is provided.

Benefits of Using InTrust

When integrated with TPAM, InTrust brings new, powerful means of automating and streamlining your auditing workflow:

- **Long-term data storage, archival, and backup.** With InTrust, you can use file-based or Centera-based repositories to store TPAM logs in a compressed form for any period of time; extract events from the repository for on-going reporting needs. These features help organizations comply with external regulations and internal policies.
- **Exploration and representation** of TPAM logs in InTrust Repository Viewer with the following benefits:
 - Quick and interactive full-text search
 - Fields detection and field-based search
 - Grouping, sorting and charting of information
- **Consolidation of various log sources** to allow comprehensive analysis of privileged users activity, such as:
 - Logon events from Windows DCs and logon session events from Windows workstations
 - Events from native logs residing on UNIX/Linux hosts managed by TPAM
 - Changes to Active Directory, File Systems, Exchange objects and other infrastructure components and IT data captured by the Change Auditor family of products

The following figure shows how TPAM and related systems work together.



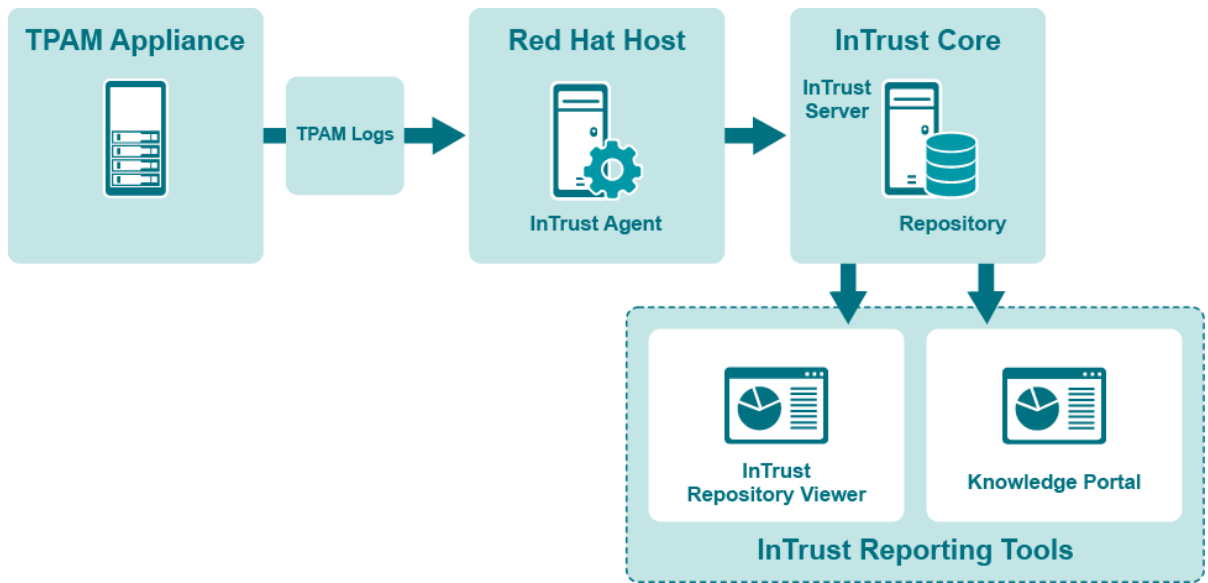
Note that in addition to collecting TPAM logs, InTrust can also collect logs from related systems, such as hosts managed by TPAM, workstations from which users connect to TPAM and Active Directory domain controllers where TPAM users reside. For more information about that, refer to the corresponding InTrust documentation.

How Integration Works

Communication between the components takes place as follows:

1. TPAM logs such as user and sys-admin activity are forwarded to a Red Hat or Oracle Linux host with installed InTrust agent acting as a Syslog listener.
2. Then logs are parsed on InTrust side and put into the InTrust repository.
3. TPAM events in InTrust Repository are normalized into a common representation not requiring expert knowledge of events.
4. As a result, data from TPAM can be tracked using one of the following:
 - Repository Viewer (for ad-hoc searches and forensic analysis)
 - Quest Knowledge Portal (for interactive and schedule based reporting)

This scenario is shown in the following diagram.



Getting Started

1. [Step 1. Install InTrust with TPAM Knowledge Pack](#)
2. [Step 2. Configure TPAM Log Forwarding](#)
3. [Step 3. Allow Syslog Reception on Linux Host](#)
4. [Step 4. Install the Agent](#)
5. [Step 5. Establish a Connection with InTrust Server](#)
6. [Step 6. Add Agent to Site on InTrust Server](#)
7. [Step 7. Enable Schedule for Daily Collection Task](#)
8. [Step 8. Run Daily Collection Task](#)

Step 1. Install InTrust with TPAM Knowledge Pack

First of all, you need to install InTrust in your environment. In order to work with TPAM, make sure that during setup you selected the TPAM Knowledge Pack to install with InTrust.

CAUTION: The Linux Knowledge Pack must be installed for InTrust in addition to the TPAM Knowledge Pack.

For detailed guidelines on installing InTrust, refer to the [InTrust Deployment Guide](#).

Predefined Objects

The TPAM Knowledge Pack installation brings the following objects to InTrust:

- Data source: "TPAM through Red Hat Linux Syslog"
- Gathering policy: "TPAM: All Syslog Events"
- Task: "TPAM Syslog - daily collection"
- Site: "TPAM hosts"

Step 2. Configure TPAM Log Forwarding

InTrust takes advantage of the Syslog logging system on TPAM appliance. Syslog provides data for auditing activities.

In order to collect TPAM logs using InTrust, TPAM administrator should configure TPAM to forward log messages to a Linux host running one of the supported by InTrust versions of Red Hat Enterprise Linux or Oracle Linux on which you plan to install the InTrust agent later. That Linux host with the InTrust agent will act as a Syslog listener.

For information on how to configure the logs to be sent to the Syslog server, refer to TPAM documentation.

i | **IMPORTANT:** TPAM provides the **Include Source: ApplianceName in syslog message** option in its Syslog configuration settings. For InTrust to be able to collect TPAM events, this option must be turned off. If it is enabled, matching will fail for the resulting Syslog messages.

Step 3. Allow Syslog Reception on Linux Host

You need to permit the Syslog daemon to receive logs from the TPAM appliance on the Red Hat or Oracle Linux host to which you forwarded logs on [step 2](#). For that, perform the *Enabling Reception of External Syslog Messages* procedure described in the [Syslog Configuration](#) topic

After this, you should be ready to receive events from TPAM.

Step 4. Install the Agent

You need to install an InTrust agent on the Red Hat Enterprise Linux or Oracle Linux host to which you forwarded logs on [step 2](#). For details, see [Installing Agents Manually on Linux Computers](#).

Step 5. Establish a Connection with InTrust Server

To establish a connection between an agent and an InTrust server, see the procedure in the [Establishing a Connection with the Server](#) topic.

Step 6. Add Agent to Site on InTrust Server

To add agent to site on InTrust Server, take the following steps:

1. In **Quest InTrust Manager | Configuration | Sites | Unix Network**, right-click the **TPAM hosts** node and then click **Add | Computer**.
2. Type in the name of agent previously installed on [step 4](#).

i | **NOTE:** To view agents registered for this InTrust server, open **Quest InTrust Manager | Configuration | InTrust Servers | <Server Name> | Agents** node in the left pane.

3. Click **Commit** on the toolbar to apply changes.

Step 7. Enable Schedule for Daily Collection Task

To enable the schedule for the daily collection task, take the following steps:

1. In **Quest InTrust Manager | Workflow | Tasks | Predefined tasks**, right-click **TPAM Syslog - daily collection** and select **Properties**.
2. Select the **Schedule enabled** check box and click **OK**.
3. Click the **Commit** button on the toolbar to apply your changes.

Step 8. Run Daily Collection Task

To start collecting events that the Linux host receives from the TPAM appliance, right-click **Syslog - daily collection** in the left pane and then click **Run**.

This task collects all events from TPAM appliance and stores the events in the default repository. To view current state of the task, use the **Workflow | Sessions** node in the left pane.

When daily collection task is finished, you can open InTrust Repository Viewer and start processing event data according to your needs. For possible use case scenarios, follow information from the [Usage Scenarios](#) topic.

Usage Scenarios

This chapter describes typical situations in a production environment and how InTrust with the TPAM Knowledge Pack help handle them, as follows:

- [Observing TPAM Session Requests](#)
- [Tracking User Activity in Environment](#)

Information in this section implies that you are familiar with InTrust repositories and Repository Viewer. For detailed information on browsing InTrust repositories with Repository Viewer, refer to [Understanding InTrust Repositories](#) and [Searching for Events in Repository Viewer](#).

Observing TPAM Session Requests

Suppose for a security reason you need to check whether and when (if applicable) a specific user had access to a particular host through TPAM session. Given that you have configured TPAM and InTrust intercommunication as described in the [Getting Started](#) topic, you can solve this task as follows:

1. Open Repository Viewer to browse data stored in your repository
2. Use the predefined search named TPAM session requests (last 24 hours) located under **Auditing Unix and Linux | Auditing TPAM**. This search will find all events related to TPAM session requests which were generated during last 24 hours. Events are grouped by the Target field which represent managed host the request was referred to.
3. To look for a particular user, target or time period, or for all of them at the same time, you need to narrow down the search scope by configuring the following parameters of the search filter:
 - To define a user or a set of users, use the **Who** field from **Normalized Strings**
 - To set managed hosts requests were referred to, use the **Target** field from **Named Insertion Strings**.
 - To limit time period, use the **When** field from **Normalized Strings**
4. Finally, to execute search, click the **Go** button. The events providing all necessary information according to your search criteria will be shown in the events grid.

Tracking User Activity in Environment

One of the greatest benefits of using InTrust in your environment is that you get the ability to consolidate various log sources and view them in InTrust Repository Viewer.

Information on user and admin activity from TPAM complements information from the other sources such as events from Active Directory domain controllers where TPAM users reside, the user session events tracked on workstations or any other sources supported by InTrust for log collection. Combining such information sources together allows getting complete trace of user activity in your environment.

Suppose you need to correlate Syslog events from TPAM with events from Windows event log to completely track activity of a particular user in your environment, such as

- Account logon and authentication events
- Events from TPAM Syslog and from Syslog of managed systems

For that purpose, you can create a custom Search Folder which includes all necessary data sources in InTrust Repository Viewer and use the Who field from Normalized Strings as well as any other filter parameters as follows:

1. In InTrust Repository Viewer create a new search folder. For that, right-click **Custom Search Folders** and select **Create Search Folder**.
2. Add a **Custom** filter parameter and specify the following query as its value:
`((striequ(Log,"security")) and ((striequ(What,"logon")) or (striequ(What,"Kerberos Authentication")))) or (striequ(Log,"syslog")) or (striequ(Log,"TPAM"))`
3. Select users you are interested in using the **Who** field.
4. After that configure layout according to your needs using fields from **Normalized Strings**, such as **When**, **What**, **Where from**, and other fields.

Now you can track when the selected users logon to their Windows computers, when they access TPAM and which activities they perform through TPAM.

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