

Quest® InTrust 11.6.0

Upgrade Guide



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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 Upgrade Guide

Updated - November 2023

Version - 11.6.0

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General Upgrade Information

Upgrade is supported for the following InTrust versions:

- 11.5.1
- 11.5.0
- 11.4.2
- 11.4.1 with or without Update 1
- 11.4
- 11.3.2
- 11.3.1
- 11.3

i **NOTE:**In-Place Upgrade 11.6.0 will not support Server and AeCDSuiteLauncher (Extended Suite).

This guide describes upgrading extended InTrust deployments.

! **CAUTION:**

- **The InTrust components require that ports 900 and 8340 be open for inbound traffic. The InTrust installer knows how to configure these ports automatically in Windows Firewall. In addition, IT Security Search and the InTrust repository API work with port 8341, which is not configured automatically. If you use the API or IT Security Search, make sure this port is open.**
- **In the course of an upgrade from a version prior to 11.3.2, you may get the following error messages during repository indexing and searching:**
`Unknown field <field_name> referenced in log knowledge base as source of value.`
This is caused by differences in log knowledge base definitions between the old and new InTrust versions. The problem should go away as soon as all InTrust components have been upgraded—not just InTrust Server, but also Repository Viewer and others.

Upgrading Your InTrust Organization

- [Before You Start](#)
- [Step 1: Database Preparation](#)
- [Step 2: Upgrade the First InTrust Server in Your InTrust Organization](#)
- [Step 3: Upgrade the Other Servers](#)
- [Step 4: Upgrade the Agents](#)
- [Step 5: Upgrade InTrust Monitoring Console](#)
- [Step 6: Enabling FIPS compliant algorithms](#)

InTrust 11.6 now supports FIPS approved hashing algorithms and encryption algorithms. For a fresh installation, the FIPS compliant algorithms are enabled automatically. For an upgrade from older versions (11.5.1 or below), you need to run **InTrustFIPSMigratorTool** and **adcorgpwd** tools available in the **SupportTools** folder of installation folder and follow steps mentioned in Upgrade Guide. Once FIPS compliant algorithms are enabled, they will remain enabled and cannot be changed back to Non-FIPS algorithms. Please refer the *Upgrade Guide* for more details.

i | **NOTE:** Once enabled FIPS compliant algorithms on one Intrust server, make sure to enable it on all other Intrust servers in the Organization.

Before You Start

Follow the below steps **before** performing an upgrade (11.6.0 version):

1. Run the [InTrustFIPSMigrator Tool](#) (refer page number 15 of this guide).
2. Uninstall the all the previous version InTrust components.

i | **NOTE:**In-Place Upgrade 11.6.0 will not support Server & AeCDSuiteLauncher (Extended Suite).

3. Clean-up the Temp folder & restart the machine

! | **IMPORTANT:**
In case of an upgrade, cleaning up the temp folder and restarting the system is a mandatory step.

Proceed with installation of 11.6.0 Version as below:

1. While Installing 11.6.0 full suite or Individual server msi, select “join” and click on “Search for existing organization by InTrust configuration database”

2. And then select old organization name, respective database for old organization and continue further.

Quest InTrust 11.6 Setup

Specify Quest InTrust Organization
Create a new InTrust organization or join the existing one.

An InTrust organization is a group of servers with shared configuration. Select whether to create a new InTrust organization or to join the existing one, then specify organization name and password:

Create

Organization name:

Organization password:

Confirm password:

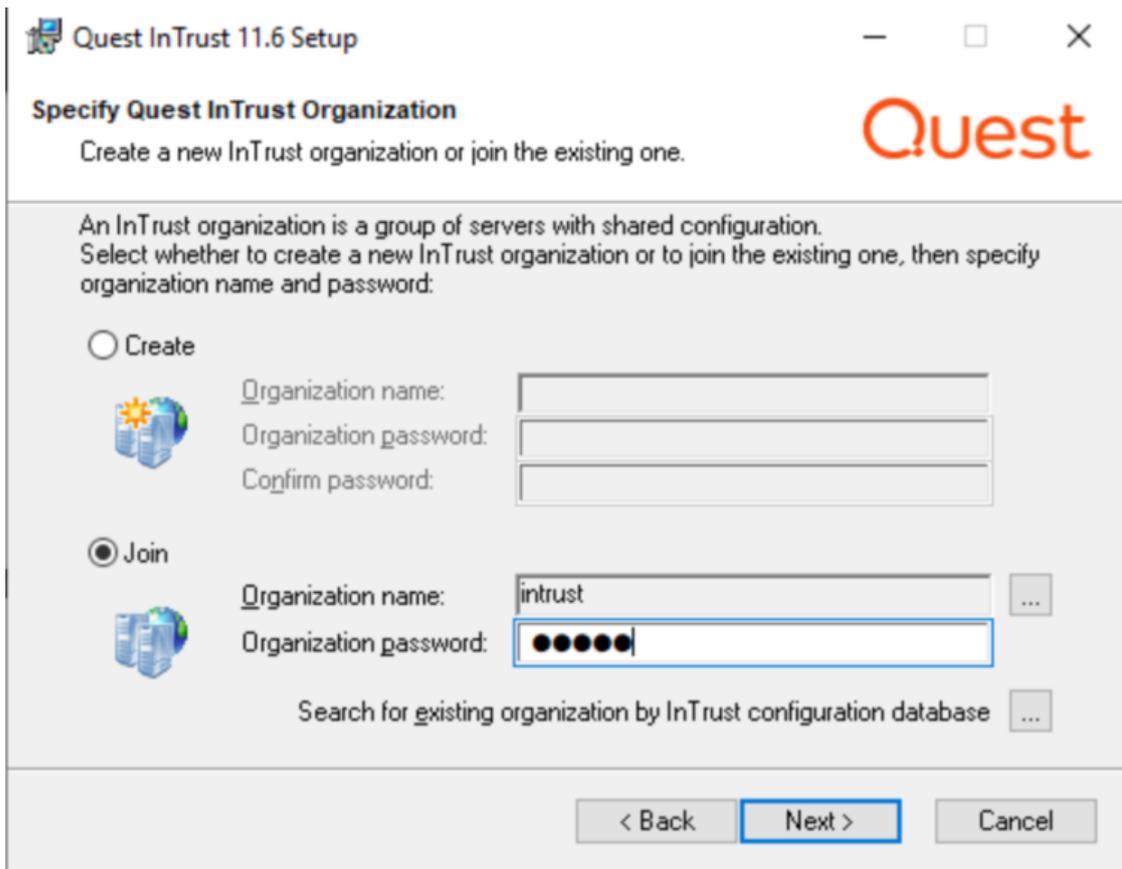
Join

Organization name: ...

Organization password:

Search for existing organization by InTrust configuration database

< Back Next > Cancel



To upgrade your installation of InTrust, you have to upgrade all InTrust servers in your organization using the InTrust suite setup. Below are several recommendations on the steps you should take before starting the upgrade procedure.

- Consider the accounts under which you are going to run setup. All the accounts you are going to use must be listed as InTrust organization administrators. For one of the InTrust servers you are going to upgrade, do the following:
- If the computer where you are going to upgrade InTrust Server or InTrust Manager is a SQL server, then make sure in advance that the installed version of SQL Server Native Client is no earlier than the version required by InTrust 11.6.0; version 11.0.6538.0 of the client is redistributed with InTrust.

Things to Remember

Note the following specifics, which you should be aware of throughout the upgrade process:

- If you are upgrading from version 11.3.2 or earlier, don't enable InTrust self-audit until all InTrust servers have been upgraded. Otherwise, self-audit events logged during the transition period may be useless.

- Think in advance about the account you are going to use for running InTrust setup to perform the upgrade. This account must have sufficient privileges to modify the SQL Server databases that InTrust uses. A new InTrust version can introduce changes into the database schema, so use a powerful enough account to apply those changes. To choose the account, consider the following tips:
 - If the initial deployment of InTrust involved running the bundled database configuration scripts with minimal sufficient privileges, then repeat the procedure with the same privileges using the scripts bundled with the target release, as described in [Providing Database Access](#).
 - If the initial deployment of InTrust was performed under an account with **dbo** rights, then use an account with **dbo** rights for the upgrade also.
 - If you don't know how the InTrust databases were initially configured, use an account with **dbo** rights for the upgrade. Note that subsequent upgrades will also require such an account.

What Happens When Configuration Objects Receive Updates

For predefined configuration objects (such as tasks, real-time monitoring rules and data sources), it is InTrust policy not to overwrite their existing versions with the updated versions during upgrade. This approach ensures that your configuration, which is most likely customized, keeps working without changes during and after the upgrade, but it also means that in the usual course of an upgrade, these changed objects do not end up in your InTrust infrastructure.

InTrust releases newer than your current version may include fixed or enhanced versions of out-of-the-box configuration objects. If an InTrust version introduces any significant changes to such objects, the details are described in the Release Notes for that version, in the *Enhancements* and *Resolved Issues* topics. Check these topics to find out what exactly has changed in the configuration objects.

If you want the newer versions of such objects and you find that the upgrade has not deployed them, contact Quest Support for recommendations on the procedure that will best suit you.

Step 1: Database Preparation

If you plan to work with InTrust accessing the databases under a **dbo** account, you can proceed to [Step 2](#).

Otherwise (that is, if your InTrust databases were accessed using a non-**dbo** account or you plan to use such an account when working with InTrust), take the following steps:

1. Have your database administrator run the following scripts on your InTrust databases:
 - a. On the configuration database:
 - configdb.sql
 - InTrust9_0_configuration_schema.sql
 - b. On the audit database(s):
 - auditdb.sql
 - ITFE80_EventsData.sql
 - c. On the alert database(s)
 - alertdb.sql
 - InTrust9_0_alerts_schema.sql

CAUTION: These scripts are shipped with the distribution of your new InTrust version in the `Scripts\Database Scripts` folder. The scripts must be run using an account with the `dbo` role.

2. Have your database administrator assign the database roles to those accounts planned for database access in accordance with the *Minimal Rights and Permissions Required for InTrust Operations* topic in the *System Requirements* document.

Step 2: Upgrade the First InTrust Server in Your InTrust Organization

To upgrade the first server in your organization, launch the InTrust suite setup from the InTrust distribution and follow the steps of the wizard.

CAUTION: Setup must be launched under an account having the `dbo` role for all InTrust databases, or under an account having access rights for these databases at least as detailed in the *Minimal Rights and Permissions Required for InTrust Operations* topic in the *System Requirements* document.

It is up to you which of your InTrust servers you upgrade first. However, if you have enabled InTrust server failover capabilities in your environment (for details, see [InTrust Server Failover and Rollback](#)), you should first upgrade the server that is configured as the standby server. This ensures that failover remains possible at all times. If this upgrade of the standby server fails for any reason, consider setting up a different standby server and upgrading it next.

To upgrade the first server

1. When prompted, select the features to install. Setup automatically detects the features that are already installed and selects them for upgrade. If you want to add more features, select them also.
2. Specify how the reports should be upgraded:
 - Override old reports
 - Back up all old reports
 - Back up only those old reports that have been customized

CAUTION:

- If you are going to back up any of your old reports, use the backup option in the setup only during the upgrade of the first InTrust server. For subsequent servers, select the override option.
- Granular report backup can be used only if these reports were previously installed by launching corresponding Report Pack/Knowledge Pack setup on the local computer (where the setup is now running).

3. Complete the setup.

NOTE: If prompted, reboot the computer after the setup is completed. If you stopped the **Quest InTrust Real-Time Monitoring Server** and **Quest InTrust Server** services before the upgrade, start their updated versions manually after you complete the setup.

Step 3: Upgrade the Other Servers

Each setup account must have the **dbo** role for all InTrust databases, or at least the access rights for these databases as detailed in the *Minimal Rights and Permissions Required for InTrust Operations* section of the *System Requirements* document.

! CAUTION:

- Do not perform server upgrades simultaneously—servers must be upgraded sequentially, one after another.
- It is recommended that you keep a record of your upgrade process to track which servers have been upgraded. If you need to connect to a server, you will need to know whether it has been upgraded.
- If you have repositories for which indexing and gathering are managed by different InTrust servers, then there should be no lengthy gaps between the upgrades of those servers. Upgrade such servers one after another in close sequence: first the indexing server, and then the gathering servers.

To continue the InTrust server upgrade

1. On the InTrust server selected for upgrade, launch the InTrust Suite setup.
2. Review the configuration settings and wait for setup to complete.

After the InTrust organization upgrade is complete, you can start upgrading the agents, as explained next.

Step 4: Upgrade the Agents

! CAUTION:

- If you are upgrading agents manually, it is strongly recommended that you upgrade the agents only after the upgrade of all InTrust servers is complete.
- If the security policy in your environment allows the agent deployment method that is built into InTrust, just make sure the Prohibit automatic agent deployment on site computers option is disabled for all sites in InTrust Manager. The agent upgrade will be performed seamlessly.

Agent upgrade can be automatic or manual, as follows:

- An agent that was installed manually must be uninstalled manually and then installed anew. For details about installing and removing agents, see the *Manual Installation and Configuration of InTrust Agents (InTrust_11.6.0_InstallingAgentsManually.pdf)* document shipped with the agent installation package.

- On Unix-based computers, agents must always be updated manually. To minimize possible data loss during the upgrade, update the agents on your Unix-based computers using the steps below; each step is described in detail in *Manual Installation and Configuration of InTrust Agents*:
 1. Deregister the InTrust agent (old version).
 2. Uninstall the InTrust agent.
 3. Install the InTrust agent (latest version) manually.
 4. Establish a connection with the latest-version InTrust server.

Step 5: Upgrade InTrust Monitoring Console

To upgrade InTrust Monitoring Console

1. Run the InTrust suite setup on every computer where you have Monitoring Console currently installed.
2. In the list of features to install, select **Monitoring Console**.
3. It is recommended not to change the default settings, in particular, **IIS virtual directory for real-time monitoring console** (displayed on the Review Default Settings step of the setup).

Step 6: Enabling FIPS compliant algorithms

Using adcorepwd.exe to enable FIPS compliant algorithms

1. Run adcorepwd.exe (Default location: C:\Program Files (x86)\Quest\InTrust\Server\ADC\SupportTools) using below command:

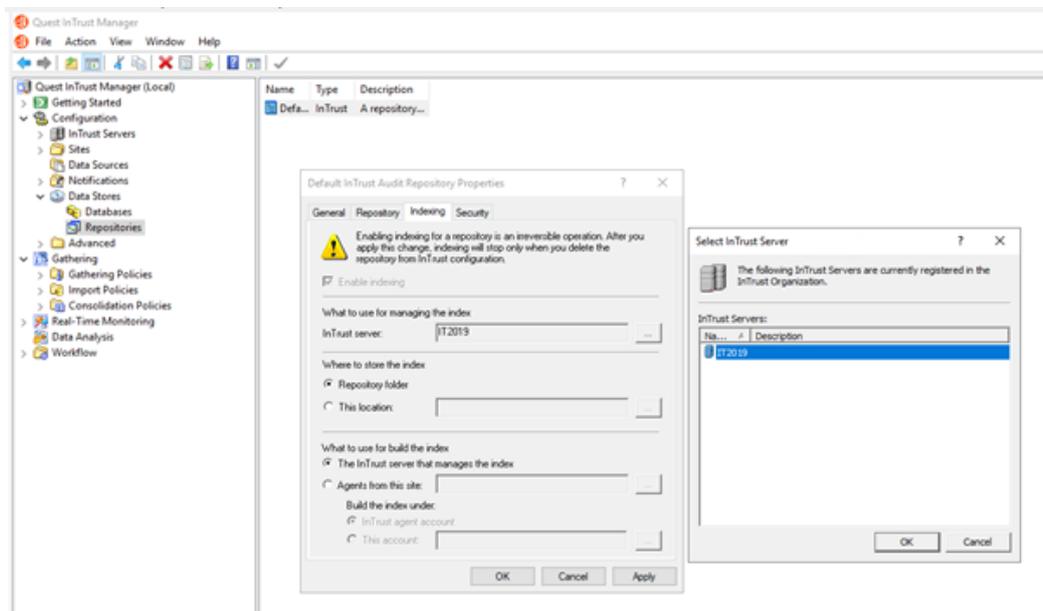
```
adcorepwd.exe -e  
OR  
adcorepwd.exe -enablefips
```

i | **NOTE:** If **adcorepwd.exe** is not used with the options as mentioned above, the product may still use some non-FIPS compliant algorithms.

After You Upgrade

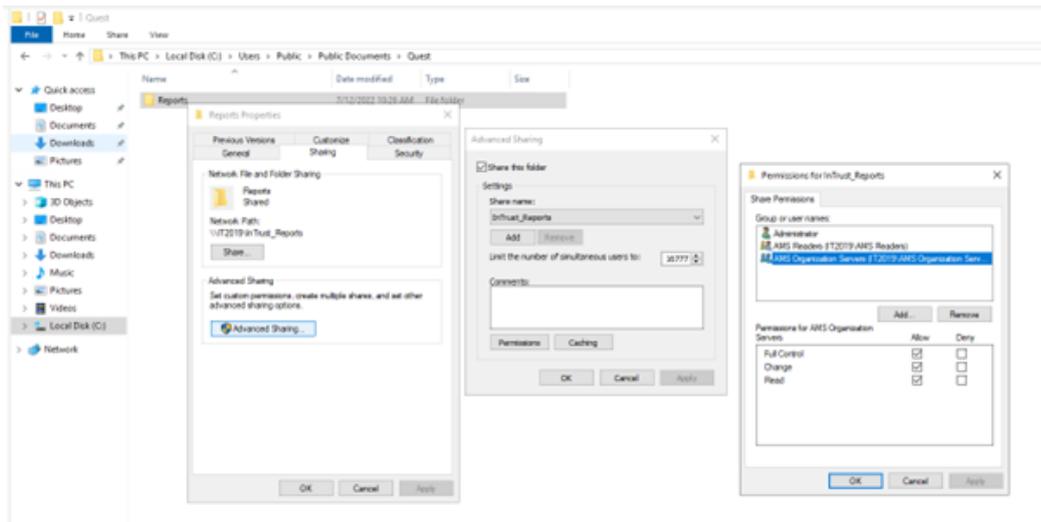
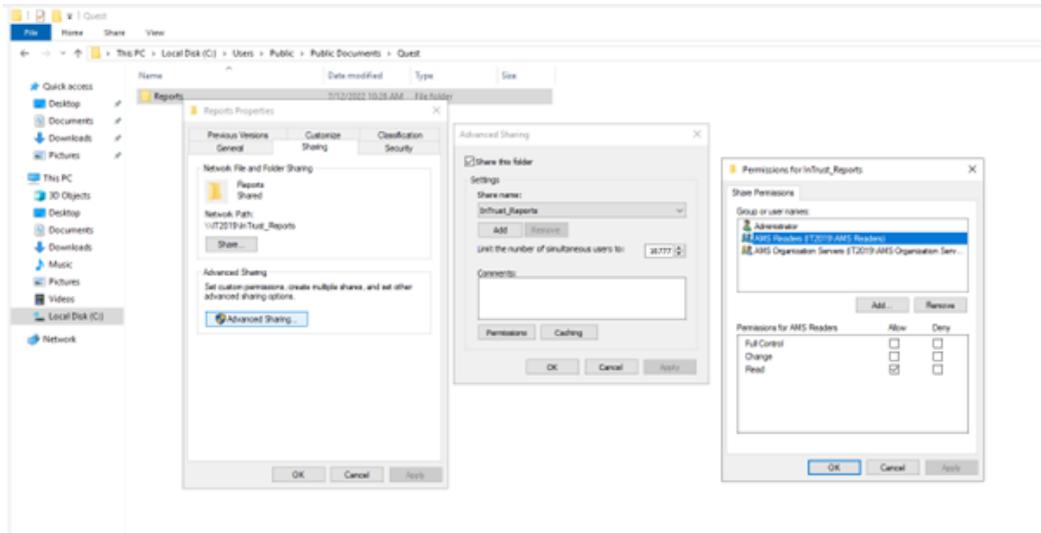
The following section describes the necessary steps you need to take **after** upgrade.

1. Run InTrustFIPSMigratorTool.exe
 - a. Go to C:\Program Files (x86)\Quest\InTrust\Server\ADC\SupportTools folder.
 - b. Run InTrustFIPSMigratorTool.exe tool (refer page number 15 of this guide and follow the steps from 2 to 7).
2. Update Server ID
 - a. In Quest **InTrust Manager | Configuration | Data Stores | Repositories**, right-click on all repositories name individually and select **Properties**.
 - b. On the Indexing tab, select **InTrust Server** and click **OK** (Attached screenshot for reference)



3. Network Access for InTrust_Reports.

- a. Go to C:\Users\Public\Documents\Quest folder
- b. Right click on Reports folder & go to properties
- c. On sharing tab, Click on Advanced Sharing
- d. Click on Permissions -> Add
 <Server Name>\AMS Readers & <Server Name>\AMS Organization Servers



4. After installing the 11.6.0 version, please follow the below-mentioned steps to enable FIPS manually.
 - a. Using `adcorgpwd.exe` to enable FIPS compliant algorithms
 - b. Run `adcorgpwd.exe` (Default location: **C:\Program Files (x86)\Quest\InTrust\Server\ADC\SupportTools**) using below command:

```
adcorgpwd.exe -e
```

OR

```
adcorgpwd.exe -enablefips
```

i **NOTE:** If `adcorgpwd.exe` is not used with the options as mentioned above, the product may still use some non-FIPS compliant algorithms. Once FIPS compliant algorithms are enabled, they will remain enabled and cannot be changed back to non-FIPS algorithms.

The InTrust Server and agents are updated to use FIPS approved algorithms and hence if we are adding 11.6.0 server in existing organization with agents and server with 11.4 or below, the communication and authentication cannot succeed..

5. Restart the machine.

The following topics describe some differences you may find in InTrust after the upgrade.

Differences in Forwarding Configuration

A new event forwarding engine was introduced in InTrust 11.4. As a result, the following organization parameters fell out of use:

- FORWARDING_RETENTION_PERIOD
- FWD_PARAM_IS_ALIVE_PERIOD_SECONDS

Even though they are still visible in the organization parameter editor, they have no effect in InTrust 11.4 and later.

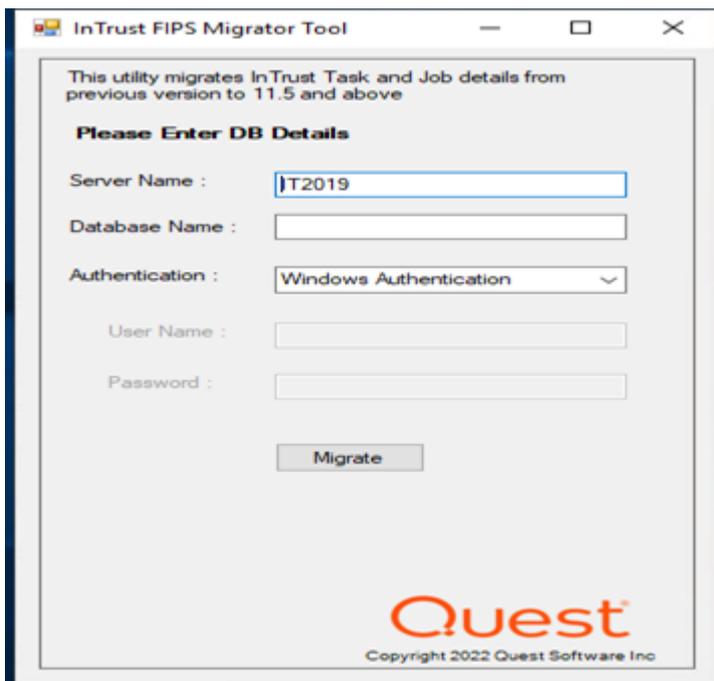
Changes in Rule Group Structure

In InTrust 11.3.2, the rule group tree was reorganized to put all attack detection rules in an easy-to-locate dedicated group. The upgrade doesn't reconfigure any existing real-time monitoring policies, so if you want to use the rules at their new locations, you need to edit the policies that reference the old rules. Otherwise, the policies will keep applying the rules at their old locations.

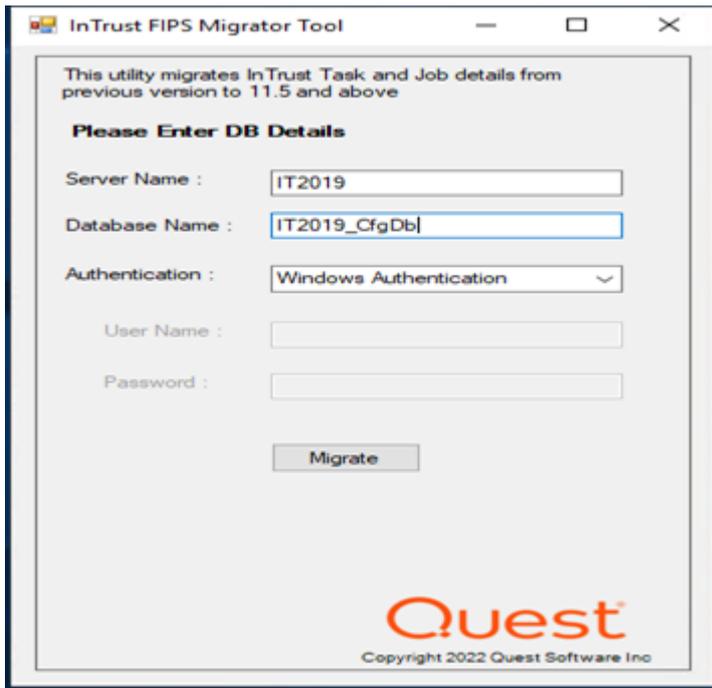
IntrustFIPS Migrator Tool

This utility migrates InTrust Task and Job details from previous version to 11.6.

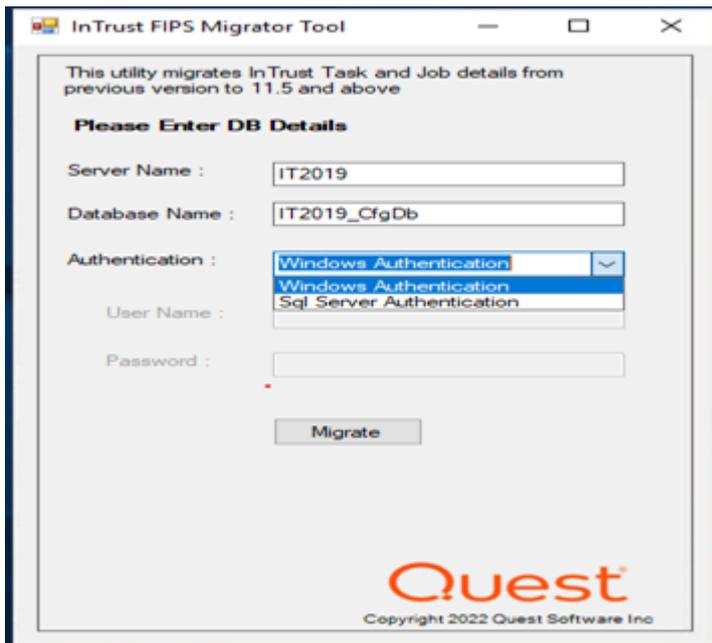
1. Install ADC_SERVER_RESOURCE_KIT.11.6.0.xxxx Msi.
2. Go to C:\Program Files (x86)\Quest\InTrust\Server\ADC\SupportTools folder.
3. Launch InTrustFIPSMigratorTool.exe tool with **local admin privilege** and the SQL login having **SQL admin privilege**.



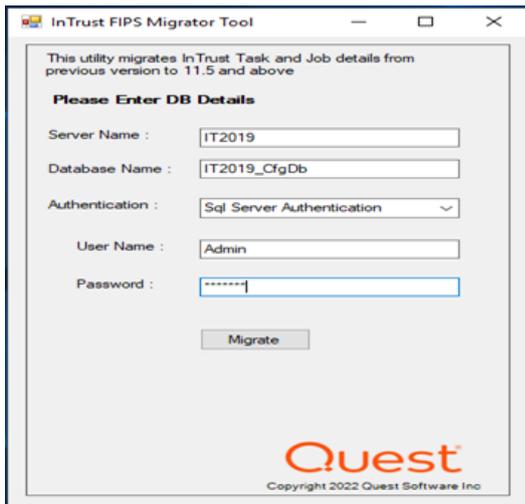
4. Enter the correct SQL server and database name.



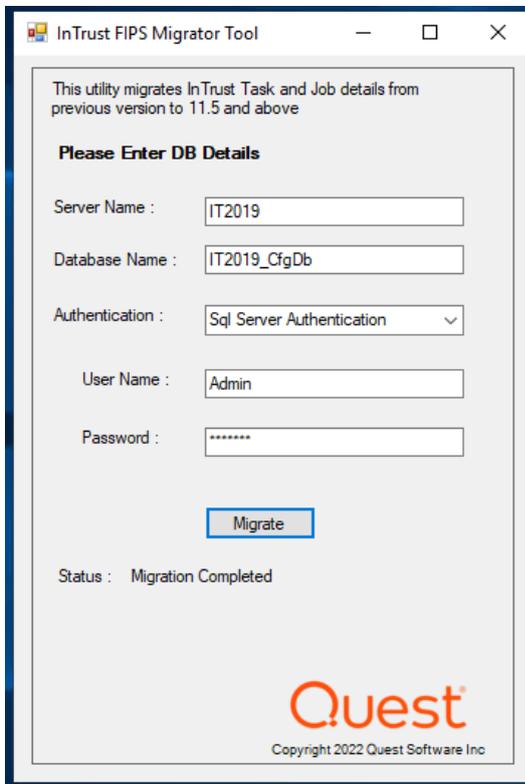
5. Select Authentication Type.



6. For SQL Server Authentication, we should enter Username & Password



7. Click on Migrate Button.



The Migration is successfully completed.

Upgrading with Configuration Database Replication Enabled

If configuration database replication over a WAN link is configured in your InTrust deployment, you need to take a few additional configuration steps. To follow this procedure, you should have the Replication of the InTrust Configuration Database document handy. For details about any steps, see the Technical Details and Procedures topic in that document.

1. Complete the preparatory steps from the [Before You Start](#) topic.
2. Make a backup copy of the configuration database.
3. Stop the **Quest InTrust Real-Time Monitoring Server** and **Quest InTrust Server** services on the InTrust server that is connected to the Subscriber database.
4. Make sure that the configuration databases are fully synchronized. Wait for initial synchronization to complete successfully. To monitor the synchronization status, right-click the name of the subscription you have created and select **View Synchronization Status** from the shortcut menu to see a message in the Status pane reading:
`Waiting 60 second(s) before polling for further changes.`
5. Delete **AdcCfgPublication**.
6. Delete the subscription.
7. Note the name of the Subscriber database and remove the database. **Important:** You will need to specify the same name later.
8. Upgrade the Publisher InTrust server the regular way, as described in Upgrade the First InTrust Server in Your InTrust Organization.
9. Create **AdcCfgPublication** on the Publisher SQL server.
10. Create a subscription for the Subscriber database. Important: The name of the new Subscriber database must be the same as the name of the database you removed on step 7.
11. Make sure that the configuration databases are fully synchronized.
12. Connect to the Subscriber SQL server using credentials with the **db_owner** role for the new InTrust configuration database. Run the **configdb.sql** script (find it in the **Scripts\Database Scripts** folder in the InTrust distribution) on that database. You may receive some errors while the script is running, such as:
 - Updating columns with the rowguidcol property is not allowed.
 - GETMAXVERSION: The parameter 'lineage' is not valid.
 - The statement has been terminated.

These errors can be safely ignored.

13. Confirm that the Subscriber SQL server is working properly.
14. Start the **Quest InTrust Real-Time Monitoring Server** and **Quest InTrust Server** services, run InTrust Manager and connect it to the Subscriber InTrust server. Check that the InTrust objects you need are available and their properties are set up correctly. If not, consider contacting Quest Support; you may have made a mistake along the way.
15. Upgrade the Subscriber InTrust server the regular way, as described in [Step 2: Upgrade the First InTrust Server in Your InTrust Organization](#). For the rest of the upgrade process, follow the Upgrade the Other Servers topic and subsequent topics.

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Open SSL 1.0.2u (Linux)	OpenSSL 1.0.2u FOM (Fips Object Module) – [openssl-fips-2.0.16] Version: 2.0.16 Copyright (c) 1998-2011 The OpenSSL Project. All rights reserved. Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com) All rights reserved. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/)
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Net-SNMP

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zlib

/* zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.13, October 13th, 2022.

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