



TIBCO® Managed File Transfer Platform Server for UNIX Installation

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Installation Overview

You can install TIBCO® Managed File Transfer Platform Server for UNIX with different accounts in different modes.

Installation Modes

You can install TIBCO Managed File Transfer (MFT) Platform Server for UNIX in console or silent mode.

Console Mode

In console mode, you can run the installation on a command line.

Silent Mode

In silent mode, the installation can be completed without prompting you for information. You can type in the required and supported parameters to run a silent installation.

Installation Environment

An installation environment isolates product installations. A product installed into an installation environment does not access components in other installation environments.

An installation environment is the top-level installation directory for TIBCO products. The installation environment consists of the following properties:

- **Directory**

Identifies the directory into which the product is installed.

- **Name**

Identifies the name of the folder where the product is installed.

The installation environment of TIBCO MFT Platform Server for UNIX is referenced as **CFROOT**. For both root and non-root installations, the default value of **CFROOT** is `/mftps`.

Installation Requirements

Before you run the installation, ensure that your system meets all the necessary hardware and software requirements, and that you have the appropriate privileges to run the installation.

Installation Account

Any type of user, regular (non-root) user and super-user (root), can perform the installation. However, non-root installation requires additional node and profile configurations before you can perform any file transfers.

For more information, see [Installing with Root User](#) and [Installing with Non-Root User](#).



System Requirements

For information about the hardware and software requirements, as well as supported platforms, see the product readme file.

Group Requirements

TIBCO MFT Platform Server uses three groups to perform different functions. By default, these groups are named as `cfadmin`, `cftransfer`, and `cfbrowse`.

See the following table for what each group is responsible for:

Group Name	Responsibility
<code>cfadmin</code>	A member of the <code>cfadmin</code> group can configure nodes, local profiles, responder profiles, as well as view audit records from all users.
<code>cfbrowse</code>	<div>  <div> <p>A member of the <code>cfbrowse</code> group can view audit records from all users.</p> <p>Users not in the <code>cfbrowse</code> group can only view transactions that they perform.</p> </div> </div>
<code>cftransfer</code>	<div>  <div> <p>A member of the <code>cftransfer</code> group can perform platform to platform file transfers initiated from Command Center.</p> <p>If the group does not exist when a transfer request comes from Command Center, the request is processed based on the node configurations for Command Center. However, when the group does exist, but the user who initiates a file transfer from Command Center is not a member of the group, the transfer fails.</p> </div> </div>

See the following table for the group requirements for both installation methods.



Y means that the group must exist before the installation; N means that the group is not required to exist before the installation.

Installation Method	<code>cfadmin</code>	<code>cfbrowse</code>	<code>cftransfer</code>
Root Installation	Y	N	N
Non-Root Installation	Y	N	N

- For the root installation:
 - The `cfadmin` group must exist in the system before the installation, so the folders and files can be assigned properly to the group. It can either be a group that already exists or a new group (the group does not have to have any members in it).
 - The `cfbrowse` and `cftransfer` groups do not have to exist before the installation. You can create these groups during installation.
- For the non-root installation:
 - The `cfadmin` group must be created before the installation. You can create the `cfbrowse` and `cftransfer` groups after installation. The user running the installation has the ownership of all the installed folders and files.



The installation allows you to define group names that are different from the default group names. If you define different group names, the group names should not contain an embedded space. The group name defined as the `cfadmin` group must exist before the installation. After the installation, if you want to change any group name, you can modify the `config.txt` file located in the `$CFROOT/config` directory.

For more information, see *TIBCO Managed File Transfer Platform Server for UNIX User's Guide*.

Installation

TIBCO MFT Platform Server for UNIX can be installed in console or silent mode.

Ensure that your system meets all the requirements described in [Installation Requirements](#).



TIBCO MFT Platform Server for UNIX 8.0.1 can be installed in the same directory as prior versions of TIBCO MFT Platform Server for UNIX. However the directory structure has changed. Executable files are now saved in the \$CFROOT/bin directory. If you are migrating from Platform Server 7.2 or before, you may need to update the PATH to set the correct directory.

If you install TIBCO MFT Platform Server for UNIX in a different directory than a prior installation, you must manually copy the configuration files. You also must update the config.txt file to set the configuration values. You should not use the config.txt file from a prior version.

Installing in Console Mode


When installing in console mode, you can run the installation on the command line.

Both root user and non-root user can perform the installation of TIBCO MFT Platform Server for UNIX . Transfers initiated by the local server work the same for root and non-root installations. However, transfers initiated by a remote server work differently for root and non-root installations.

See the following table for the differences between root installations and non-root installations:



This table only applies to responder requests. Root and non-root installations have no effect on transfers initiated by TIBCO MFT Platform Server for UNIX .

Root Installation	Non-Root Installation
<p>Supported authentication methods:</p> <ul style="list-style-type: none">• Authentication using the password and shadow password file• PAM authentication• Responder profiles authentication <div> For more information on configuring PAM authentication, see the PAM authentication in the <i>TIBCO Managed File Transfer Platform Server for UNIX User's Guide</i>.</div>	<p>Supported authentication methods:</p> <ul style="list-style-type: none">• Responder profiles authentication
<p>Transfers are executed under the transfer user's credentials.</p> <ul style="list-style-type: none">• When a responder profile is validated, a set UID is executed to set the transfer process to the UID associated with the responder profile.• When a user's credentials are validated, a set UID is executed to set the transfer process to the transfer user's credentials.	<p>Transfers are executed under the credentials of the user who starts CyberResp daemon.</p> <ul style="list-style-type: none">• When a responder profile is validated, a set UID is not executed to set the transfer process to the UID associated with the responder profile.
<p>File authorization checking is performed under the transfer user's UID.</p>	<p>File authorization checking is performed under the UID of the user who start CyberResp daemon.</p>

Installing with Root User

Procedure

1. Download the package from the TIBCO download site <https://edelivery.tibco.com>.
You are required for a user name and password for downloading. If you do not receive a user name and password, contact TIBCO technical support.
2. Unzip the package to a local directory.
3. Upload the installation package (example: `cyberlinux.64.tar` for a Linux system) in binary format to a temporary directory on the UNIX system.

You can use multiple ways to upload the file to the UNIX system. For example, to use FTP to copy the package, you can use the following commands at the DOS command prompt:

```
ftp UNIX_machine_name/IP_address
cd /usr/tmp
bin
put cyberlinux.64.tar
bye
```

4. Configure the UNIX system.
 - a) Log in to the UNIX system with the root account. Optionally, you can use `sudo` to install as a root user.
 - b) Create a `cfadmin` group with a suitable name using the **`groupadd`** command.
You must define this group before running the **`install`** script.
5. On the command line, navigate to the temporary directory where the installation package is located.
6. Use the **`tar`** command to extract the installation files.

```
tar -xvf MFT_tar_file_name
```

For example,

```
tar -xvf cyberlinux.64.tar
```

7. Run the **`install`** script by using the following command.

```
./install
```



For information about configuring command line options when you run the script, see the [supported installation parameters](#).

- a) Press Enter after you finish reading the license agreement, and then type Yes to accept the license agreement.
- b) Type Y or y to accept the default installation directory `/mftps`.
If you want to choose another directory, type N or n so you can enter an installation path. The new directory is created if it does not exist.
- c) If you are installing in the same directory as a prior installation, type Y or y to restore the existing configuration files or type N or n to bypass restoring the configuration files.
If you do not restore the existing configuration files, they are saved in folder: `$CFROOT/BACKUP_CONFIG`.
- d) Type Y or y to accept the default group names: `cfadmin`, `cftransfer`, and `cfbrowse`.
If you want to choose another group, type N or n so you can enter each group name. For more information, see [Group Requirements](#).
- e) Type Y or y if you want to create symbolic links in the `/usr/lib` directory for each file in the `/libs` directory.
- f) Type Y or y to create a Command Center (CC) node. Enter the node name, host, and port when prompted.

g) Review the following information in the final installation message:

- Location of the configuration file (by default `$CFROOT/config`): you can use the configuration file to configure server settings. For more information, see *TIBCO Managed File Transfer Platform Server for UNIX User's Guide*.
- At the end of the installation, you are prompted to update three environment variables:
 - **CFROOT**: Defines the Platform Server for UNIX installation directory
 - **PATH**: Defines the path where the Platform Server for UNIX executables are located.
 - **LD_LIBRARY_PATH** (or **LIBPATH** for AIX): Defines where runtime libraries are located.



It is recommended to add the environment variables to your login profile. These three environment variables must be set before executing any transfers or starting the TIBCO MFT Platform Server for UNIX Responder daemon.



All the executables, such as (cfdirc, cfinq, cfnode, cfprofile, cfrprofile, cfsend, cfrecv, cfstart, cfstop, substart, fusing, fusutil, CyberResp) are saved in the `$CFROOT/bin` folder when the installation is completed.

Installing with Non-Root User

TIBCO MFT Platform Server for UNIX supports non-root installation using the `install.noroot` script.



The non-root installation can be installed, configured and run without the knowledge and assistance of an administrator.

Note that if you use this option, the following capabilities are not available to you:

- Validation of password against the UNIX security system.

Without this capability, responder profiles are required to provide authentication before any file transfers can be performed. To use the responder profiles, you have to create nodes. Each responder profile is associated with a node. For more information, see *TIBCO Managed File Transfer Platform Server for UNIX User's Guide*.

- Running of transfers under the effective user ID (UID) of the remote user who initiates the transfer request.

Without this capability, transfers initiated from a remote platform server run under the UID of the user who starts the CyberResp daemon.

Procedure

1. Download the package from the TIBCO download site <https://edelivery.tibco.com>.

You are required for a user name and password for downloading. If you do not receive a user name and password, contact TIBCO technical support.

2. Unzip the package to a local directory.

3. Upload the installation package `cyberlinux.64.tar` in binary format to a temporary directory on the UNIX system.

You can use multiple ways to upload the file to the UNIX system. For example, to use FTP to copy the package, you can use the following commands from the DOS command prompt:

```
ftp UNIX_machine_name/IP_address
cd /usr/tmp
bin
put cyberlinux.64.tar
bye
```

4. Log in to the UNIX system with a non-root account.



It is good practice that you install the software using the same non-root account which will be used to start the CyberResp daemon.

5. On the command line, navigate to the temporary directory where the installation package is located.
6. Use the **tar** command to extract the installation files.

```
tar -xvf MFT_tar_file_name
```

For example,

```
tar -xvf cyberlinux.64.tar
```

7. Run the **install.noroot** script by using the following command.

```
./install.noroot
```



For information about configuring command line options when you run the script, see the [supported installation parameters](#).

- a) Press Enter after you finish reading the license agreement, and then type Yes to accept the license agreement.
- b) Type Y or y to accept the default installation directory /mftps.
If you want to choose another directory, type N or n so you can enter an installation path. The new directory is created if it does not exist.
- c) Type Y or y to accept the default group names: cfadmin, cftransfer, and cfbrowse.
If you want to choose another group, type N or n so you can enter each group name. For more information, see [Group Requirements](#).
- d) Type Y or y to create a Command Center (CC) node. Enter the node name, host, and port when prompted.
- e) Review the following information in the final installation message:
 - Location of the configuration file (by default \$CFROOT/config): you can use the configuration file to configure server settings. For more information, see *TIBCO Managed File Transfer Platform Server for UNIX User's Guide*.
 - Path information: you can use it to configure the required environment variables. At the end of installation, you are promoted to update the PATH as export PATH=\$PATH:\$CFROOT/bin



All the executables such as (cfdi, cfinq, cfnode, cfprofile, cfrprofile, cfsend, cfrecv, cfstart, cfstop, substart, fusing, fusutil, CyberResp) are saved in the \$CFROOT/bin folder when the installation is completed.

Installing in Silent Mode

In silent mode, the installer does not prompt you for any input during the installation. To ensure that all required parameters are set, you can pass parameters to either **install** or **install.noroot** script.

Procedure

1. Download the package from the TIBCO download site <https://edelivery.tibco.com>.
You are required for a user name and password for downloading. If you do not receive a user name and password, contact TIBCO technical support.
2. Unzip the package to a local directory.
3. Upload the installation package cyberlinux.64.tar in binary format to a temporary directory on the UNIX system.
You can use multiple ways to upload the file to the UNIX system. For example, to use FTP to copy the package, you can use the following commands at the DOS command prompt:

```
ftp UNIX_machine_name/IP_address
cd /usr/tmp
```

```
bin
put cyberlinux.64.tar
bye
```

4. On the command line, navigate to the temporary directory where the installation package is located.
5. Use the **tar** command to extract the installation files.

```
tar -xvf MFT_tar_file_name
```

For example,

```
tar -xvf cyberlinux.64.tar
```

6. Type the **install** parameters.



The parameters that are required for a silent installation are:

-q defines that the script runs in the silent mode.

-accepteula defines that you have read and accepted the End User License Agreement.

The following table lists all the supported parameters and their usage. To get a list of these parameters, enter: `./install -h`

Parameter	Usage
-d	Defines the directory where TIBCO MFT Platform Server for UNIX is installed.
-q	Runs the script in silent mode without user input.
-c	Saves and restores configuration files during a reinstallation.
-n	Saves but does not restore configuration files during a reinstallation.
-ulnk	Creates links in the <code>/usr/lib</code> directory for files in the <code>/libs</code> directory.
-ugr	Configures special group names.
-agr	Defines the name for the Admin group.
-bgr	Defines the name for the Audit Browse group.
-tgr	Defines the name for the Transfer group.
-accepteula	Accepts the End User License Agreement.
-h (-?)	Displays online help for the install script.
-ccnode	Defines the Command Center node. You must enter the fields in the following format: <code>-ccnode cc_node_name cc_node_host cc_node_port</code>

When using the **ulnk** parameter:



- The **install.noroot** script does not support the **ulnk** parameter, because root rights are required to create these links.
- Soft links are created in the **/usr/lib** directory for each file in the **/libs** directory.
- If a soft link file pointed to the files in the **/libs** directory already exists in the **/usr/lib** directory, a link is not created. In this case, you have to set the **LD_LIBRARY_PATH** environment variable before using TIBCO MFT Platform Server for UNIX.
- You must be careful when create links for different versions of TIBCO MFT Platform Server for UNIX. If the lib files are not in the **/usr/lib** directory, you can require **LD_LIBRARY_PATH** for different versions of TIBCO MFT Platform Server for UNIX.

Examples:

- `./install -q -accepteula -ugr -d /opt/mftps -ulnk`

This example is set up to accept the license agreement, the default **cfadmin**, **cfbrowse**, and **cftransfer** group names. Choose the **/opt/mftps** directory as the installation directory, and create a soft link to point to the **/libs** directory.

- `./install -q -accepteula -ugr -agr MFTAdmins -d /opt/mftps -ulnk`

This example is set up to accept the license agreement, change the default **cfadmin** group name to **MFTAdmins**, keep the default **cfbrowse** and **cftransfer** group names. TIBCO MFT Platform Server for UNIX is installed into the **/opt/mftps** directory and a soft link is created to point to the **/libs** directory.

- `./install -q -accepteula -ugr -d /opt/mftps -ulnk -ccnode cc_node_name
cc_node_host cc_node_port`

This example is set up to accept the license agreement, the default **cfadmin**, **cfbrowse**, **cftransfer** group names, and to create a CC node. Choose the **/opt/mftps** directory as the installation directory, create a soft link to point to the **/libs** directory, and enter the CC node name, host, and the port.

7. Review the following information in the final installation message:

- Location of the configuration file (by default **\$CFROOT/config**): you can use the configuration file to configure server settings. For more information, see *TIBCO Managed File Transfer Platform Server for UNIX User's Guide*.
- Path information: you can use it to configure the required environment variables. At the end of installation, you are promoted to update the **PATH** as `export PATH=$PATH:$CFROOT/bin`



All the executables, such as (**cfdir**, **cfinq**, **cfnode**, **cfprofile**, **cfprofile**, **cfsend**, **cfrecv**, **cfstart**, **cfstop**, **substart**, **fusping**, **fusutil**, **CyberResp**) are saved in the **\$CFROOT/bin** folder when the installation is completed.

Postinstallation Tasks


After installing TIBCO MFT Platform Server for UNIX, you must perform some of the following postinstallation tasks to ensure that you can use this product smoothly.

- [Setting the Required Environment Variables](#)
- [Changing Ownership and Group Permissions](#)

Setting the Required Environment Variables

You can set the required variables at the installation or at a later time before you want to run any platform server commands.

TIBCO MFT Platform Server requires correct configuration of the following environment variables. These variables must be set for all users who run TIBCO MFT Platform Server. Use the `export` statements provided in the message at the end of the installation to set correct values for these variables.

Parameter	Description
CFROOT	Used by TIBCO MFT Platform Server to locate the installation directory.
PATH	Used by UNIX to locate the platform server executables.
LD_LIBRARY_PATH	Used by UNIX to locate the necessary lib files.  For AIX system, you must set the LIBPATH environment variable.

You can define these environment variables by using one of the following approaches:

- In the system profile: you can configure the default value for all users.
- In the user profile: the user profile value overrides the system profile and becomes the default option for the user.
- On the command line: the command line overrides the system profile and user profile.



It is good practice that you put these **export** statements in the user profile, otherwise you have to export **PATH** and **CFROOT** every time you log on.

For example, if you install TIBCO MFT Platform Server for UNIX to the default location, configure your variables as follows:

```
export CFROOT=/mftps
```

```
export PATH=$PATH:$CFROOT/bin
```

```
export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:$CFROOT/libs
```



- If you want to use TIBCO Accelerator, set your **PATH** environment variable with the following command:

```
export PATH=$PATH:$CFROOT/Accelerator
```
- If you are running on AIX system, set your **LIBPATH** environment variable with the following command:

```
export LD_LIBRARY_PATH=$LIBPATH:$CFROOT/libs
```
- If you are running other applications that use `libstdc++` and `libgcc` files, do not run the `export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:$CFROOT/libs` command, or add it to the system profile or user profile.

Changing Ownership and Group Permissions

When installed under the root account, most program files are installed with the user and group permissions of root. You can change the user and group permissions to allow non-root users to administer TIBCO MFT Platform Server for UNIX .

Prerequisites

- TIBCO MFT Platform Server for UNIX has already been installed and configured.
- The user ID for the user ownership has been identified and created within the operating system. This user ID is referred to as *USERID* in this section.
- The `cfadmin` group has been created and group ownership has been identified within the operating system.

Procedure

1. Navigate to the directory one level above *\$CFROOT*.
For example, if TIBCO MFT Platform Server for UNIX is installed in the `/opt/mftps` directory, navigate to the `/opt` directory.
2. Type the following commands (these are example commands for a SUN system):

```
chown -R USERID mftps
chgrp -R cfadmin mftps
chmod -R 775 mftps/config
```

Result

After completing these steps, you have replaced user and group permissions.



- For the root installation, the **cfstart** and **cfstop** commands must be issued by the root user.
- For the non-root installation, the **cfstart** and **cfstop** commands must be issued by the same non-root user who has performed the installation.

Upgrading TIBCO MFT Platform Server

When upgrading the TIBCO MFT Platform Server installation from an earlier version, you can run the `install` script and the output is similar with the regular installation.

Procedure

1. On the command line, navigate to the `$CFROOT` directory.
2. Run the `install` script by using the following command.
`./install`
3. Type `Y` to reinstall TIBCO MFT Platform Server for UNIX .
If you type `N` or `n` here, the installer prompts you to remove the directory where you want to install TIBCO MFT Platform Server for UNIX first and try the installation again.

4. Type `Y` or `y` to keep your old configuration files.
If you type `N` or `n`, your old configuration files are backed up and placed in a folder called `$CFROOT/BACKUP_CONFIG`.

The installation proceeds as the regular installation after this step. For more information, see [Installing with Root User](#) and [Installing with Non-Root User](#).



TIBCO MFT Platform Server versions prior to V8.0.1 installed the executables in the `$CFROOT` directory. V8.0.1 installs the executables in the `$CFROOT/bin` directory.

Uninstallation

You can uninstall TIBCO MFT Platform Server for UNIX in console mode.

Uninstalling in Console Mode

To uninstall this product, use the **uninstall** script that is provided in the *\$CFROOT* directory.

Procedure

1. On the command line, navigate to the *\$CFROOT* directory.
2. Run the following command to start the uninstallation:
`./uninstall`
3. Reply Y to remove TIBCO MFT Platform Server for UNIX and all its components.

TIBCO Documentation and Support Services

How to Access TIBCO Documentation

Documentation for TIBCO products is available on the TIBCO Product Documentation website, mainly in HTML and PDF formats.

The TIBCO Product Documentation website is updated frequently and is more current than any other documentation included with the product. To access the latest documentation, visit <https://docs.tibco.com>.

Product-Specific Documentation

The following documentation for TIBCO® Managed File Transfer Platform Server for UNIX is available on the TIBCO® [Managed File Transfer Platform Server for UNIX](#) Product Documentation page.

- *TIBCO® Managed File Transfer Platform Server for UNIX Installation*
- *TIBCO® Managed File Transfer Platform Server for UNIX User's Guide*
- *TIBCO® Managed File Transfer Platform Server for UNIX Docker Container Deployment*
- *TIBCO® Managed File Transfer Platform Server for UNIX Release Notes*

How to Contact TIBCO Support

You can contact TIBCO Support in the following ways:

- For an overview of TIBCO Support, visit <http://www.tibco.com/services/support>.
- For accessing the Support Knowledge Base and getting personalized content about products you are interested in, visit the TIBCO Support portal at <https://support.tibco.com>.
- For creating a Support case, you must have a valid maintenance or support contract with TIBCO. You also need a user name and password to log in to <https://support.tibco.com>. If you do not have a user name, you can request one by clicking Register on the website.

How to Join TIBCO Community

TIBCO Community is the official channel for TIBCO customers, partners, and employee subject matter experts to share and access their collective experience. TIBCO Community offers access to Q&A forums, product wikis, and best practices. It also offers access to extensions, adapters, solution accelerators, and tools that extend and enable customers to gain full value from TIBCO products. In addition, users can submit and vote on feature requests from within the [TIBCO Ideas Portal](#). For a free registration, go to <https://community.tibco.com>.

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