TIBCO Administrator™

Installation

Software Release 5.11
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Two-Second Advantage®

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Preface

This software may be available on multiple operating systems. However, not all operating system platforms for a specific software version are released at the same time. Please see the readme file for the availability of this software version on a specific operating system platform.

This manual explains how to install TIBCO Administrator™.

Topics

- Changes from the previous Release of this Guide, page viii
- Related Documentation, page ix
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Changes from the previous Release of this Guide

All the screenshots have been updated with new TIBCO logo.

Related Documentation

This section lists documentation resources you may find useful.

TIBCO Administrator Documentation

The following documents form the *TIBCO Administrator™* documentation set:

- *TIBCO Administrator™ Installation* Read this manual for instructions on site preparation and installation.
- *TIBCO Administrator™ User's Guide* Read this manual for instructions on using the product to manage users, resources, and applications inside an administration domain.
- *TIBCO Administrator™ Server Configuration Guide* Read this manual for instructions on using the administration server to manage projects and repositories, using command-line tools, performing conversions, and so on. The manual is written primarily for system administrators.
- *TIBCO Administrator™ Release Notes* Read the release notes for a list of new and changed features. This document also contains lists of known issues and closed issues for this release.

Other TIBCO Product Documentation

You may find it useful to read the documentation for the following TIBCO products:

- TIBCO Runtime Agent™ : TIBCO Runtime Agent is a bundle of TIBCO software and third-party software that is needed to run many TIBCO applications such as TIBCO ActiveMatrix BusinessWorks and TIBCO Adapters.
- TIBCO Designer™: This graphical user interface is used for designing and creating integration project configurations and building an Enterprise Archive (EAR) for the project. The EAR can then be used by TIBCO Administrator for deploying and running the application.
- TIBCO Hawk®: This is a tool for monitoring and managing distributed applications and operating systems.
- TIBCO Rendezvous®: Rendezvous enables programs running on many different kinds of computers on a network to communicate seamlessly. It includes two main components: the Rendezvous application programming interface (API) in several languages, and the Rendezvous daemon.

- TIBCO Enterprise Message Service™: This software lets application programs send and receive messages using the Java Message Service (JMS) protocol. It also integrates with TIBCO Rendezvous and TIBCO SmartSockets® messaging products.
- TIBCO ActiveMatrix BusinessWorks™: ActiveMatrix BusinessWorks is a scalable, extensible, and easy to use integration platform that allows you to develop integration projects. ActiveMatrix BusinessWorks includes a GUI for defining business processes and an engine that executes the process.
- TIBCO® Adapter software: TIBCO Runtime Agent is a prerequisite for TIBCO Adapter products. You will therefore find TIBCO Adapter product documentation useful.

Typographical Conventions

The following typographical conventions are used in this manual.

Table 1 General Typographical Conventions

Convention	Use
ENV_NAME *TIBCO_HOME* *TRA_HOME*	TIBCO products are installed into an installation environment. A product installed into an installation environment does not access components in other installation environments. Incompatible products and multiple instances of the same product must be installed into different installation environments. An installation environment consists of the following properties: • **Name** Identifies the installation environment. This name is referenced in documentation as *ENV_NAME*. On Microsoft Windows, the name is appended to the name of Windows services created by the installer and is a component of the path to the product shortcut in the Windows Start > All Programs menu. • **Path** The folder into which the product is installed. This folder is referenced in documentation as *TIBCO_HOME*. *TIBCO Administrator* installs into a directory within a *TIBCO_HOME*. This directory is referenced in documentation as <ProductAcronym>*_HOME*. The default value of <ProductAcronym>*_HOME* depends on the operating system. For example on Windows systems, the default value is `C:\tibco\<ProductAcronym>\<ReleaseNumber>`.
`code font`	Code font identifies commands, code examples, filenames, pathnames, and output displayed in a command window. For example: Use `MyCommand` to start the foo process.
`bold code font`	Bold code font is used in the following ways: • In procedures, to indicate what a user types. For example: Type **`admin`**. • In large code samples, to indicate the parts of the sample that are of particular interest. • In command syntax, to indicate the default parameter for a command. For example, if no parameter is specified, `MyCommand` is enabled: `MyCommand [enable | disable]`

Table 1 General Typographical Conventions (Cont'd)

Convention	Use
italic font	Italic font is used in the following ways: • To indicate a document title. For example: See *TIBCO ActiveMatrix BusinessWorks Concepts*. • To introduce new terms For example: A portal page may contain several portlets. *Portlets* are mini-applications that run in a portal. • To indicate a variable in a command or code syntax that you must replace. For example: `MyCommand` *PathName*
Key combinations	Key name separated by a plus sign indicate keys pressed simultaneously. For example: Ctrl+C. Key names separated by a comma and space indicate keys pressed one after the other. For example: Esc, Ctrl+Q.
	The note icon indicates information that is of special interest or importance, for example, an additional action required only in certain circumstances.
	The tip icon indicates an idea that could be useful, for example, a way to apply the information provided in the current section to achieve a specific result.
	The warning icon indicates the potential for a damaging situation, for example, data loss or corruption if certain steps are taken or not taken.

Table 2 Syntax Typographical Conventions

Convention	Use
`[ ]`	An optional item in a command or code syntax. For example: `MyCommand [optional_parameter] required_parameter`
`|`	A logical `OR` that separates multiple items of which only one may be chosen. For example, you can select only one of the following parameters: `MyCommand param1 | param2 | param3`

Table 2 Syntax Typographical Conventions (Cont'd)

Convention	Use

`{ }`	A logical group of items in a command. Other syntax notations may appear within each logical group.
	
	For example, the following command requires two parameters, which can be either the pair `param1` and `param2`, or the pair `param3` and `param4`.
	
	`MyCommand {param1 param2} | {param3 param4}`
	
	In the next example, the command requires two parameters. The first parameter can be either `param1` or `param2` and the second can be either `param3` or `param4`:
	
	`MyCommand {param1 | param2} {param3 | param4}`
	
	In the next example, the command can accept either two or three parameters. The first parameter must be `param1`. You can optionally include `param2` as the second parameter. And the last parameter is either `param3` or `param4`.
	
	`MyCommand param1 [param2] {param3 | param4}`

TIBCO Product Documentation and Support Services

For information about this product, you can read the documentation, contact TIBCO Support, or join TIBCO Community.

How to Access TIBCO Documentation

Documentation for TIBCO products is available on the TIBCO Product Documentation website mainly in the 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.

Documentation for TIBCO Administrator™ is available on the https://docs.tibco.com/products/tibco-administrator

How to Contact TIBCO Support

You can contact TIBCO Support in the following ways:

- For an overview of TIBCO Support, visit https://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.

Chapter 1 Installation Overview

This chapter introduces TIBCO Administrator™ installable components.

Topics

- Introduction, page 2
- Supported LDAP Servers, Databases, and Web Browsers, page 4
- Installation Prerequisites on Microsoft Windows, page 5
- Installation Prerequisites on UNIX, page 6
- Installing Releases with Higher Version Numbers, page 8

Introduction

TIBCO Administrator is dependent on TIBCO Runtime Agent™. Before installing Administrator, you must first install TIBCO Runtime Agent. After TIBCO Administrator is installed, the installer utility prompts you to launch TIBCO Domain Utility to create the initial administration domain. The initial administration domain includes an administration server, a TIBCO Hawk agent and a domain repository.

When creating an administration domain you can specify the transport to use for domain communication, either TIBCO Rendezvous or TIBCO Enterprise Message Service. If you use Rendezvous, you can specify whether domain data is stored in a file or database. The default is a file based repository. If you select the database option, you are prompted later to provide database driver information and a database account that has write permissions to the database. If you specify TIBCO Enterprise Message Service as the transport, you must use a database for domain storage.

You can integrate an administration domain with an LDAP directory server. This allows you to use users and groups defined in the LDAP directory in TIBCO Administrator. If you want your initial administration domain to be integrated with an LDAP directory server, you should review the LDAP options explained in *TIBCO Administrator User's Guide*.

TIBCO Administrator supports a variety of administration domain options.

- A machine can have multiple administration domains defined. Additional domains are defined later after the initial administration domain is defined. See *TIBCO Runtime Agent Domain Utility User's Guide* for details.
- Other machines can be added to an administration domain. The machines are used to run applications that are part of the domain. Each machine that joins a domain must have TIBCO Runtime Agent installed. To add the machine to a domain, you run TIBCO Domain Utility on that machine and specify the domain to join. See *TIBCO Runtime Agent Domain Utility User's Guide* for details.
- An administration domain can have many options defined. For example, for a Rendezvous based domain, you can define a secondary administration server and configure a domain to span across networks. See *TIBCO Administrator Server Configuration Guide* for information. These options can be set after the initial domain is created. See *TIBCO Runtime Agent Domain Utility User's Guide* for details.
- For certain advanced configuration tasks, you can edit the `tibcoadmin_`*domain*`.tra` properties file that is created for your administration server. You can use it, for example, to inform the server that the configuration

file is using non-ASCII characters. See *TIBCO Administrator Server Configuration Guide* for details.

Supported LDAP Servers, Databases, and Web Browsers

See the TIBCO Administrator readme file for details about the supported LDAP servers, Databases, and Web browsers.

Note that DataDirect database drivers are not shipped in TRA *<version>*. You can install TIBCO Database Drivers Supplement or use a vendor-supplied database driver.

Installation Prerequisites on Microsoft Windows

Here are the installation prerequisites on Microsoft Windows.

Supported Platforms

See the TIBCO Administrator readme file for details about the supported windows platforms.

Prerequisite Software

See the TIBCO Administrator readme file for details about software requirements.

Installer Account

You must have administrator privileges on the machine on which TIBCO Administrator software is installed.

Installing from Networked Drive

If you intend to install the product on a networked drive, you must change the user in the Services Configuration from Local System to a user that has permission to access the networked drive.

Memory Requirements for the Administration Server

The machine on which the Administration Server is installed should have a minimum of 2 GB of system memory.

The heap size set in `tibcoadmin_`*domain*`.tra` (`java.heap.size.max=512m`) is set for a machine with 1GB of memory.

If you have less memory, we recommend lowering the heap size. The idea is to have the (heap size) + (memory required by the operating system) < the memory of the machine.

For example on Microsoft Windows, if you have 512MB of system memory, set the heap size to no more than 300MB because Windows itself requires about 200MB.

Required Disk Space

The TIBCO_HOME directory must at least have 250 MB of free disk space.

Installation Prerequisites on UNIX

Supported Platforms

See the TIBCO Administrator readme file for details about the supported UNIX platforms.

Prerequisite Software

See the TIBCO Administrator readme file for details about software requirements.

Permissions

TIBCO <*version*> products can be installed by a regular (non-root) user or by super-user (root). Different users can install the same product at different locations.

Windows Environment

A window environment such as CDE (that is, X Windows) is required to run the installer in GUI mode. It is not required for a console installation.

Memory Requirements for the Administration Server

The machine on which the TIBCO Administrator is installed should have a minimum of 1 gigabyte of system memory.

The heap size set in `tibcoadmin_`*domain*`.tra` (`java.heap.size.max=512m`) is set for a machine with 1GB of memory.

If you have less memory, we recommend lowering the heap size. The idea is not to have (heap size) + (memory required by the operating system) > the memory of the machine.

Required Disk Space in Temporary Area

The installer launcher first extracts the JVM in a temporary directory and uses this JVM to launch itself. The size of the extracted JVM differs from platform to platform.

On UNIX platforms the following disk space is required in the temporary area:

- On Solaris, 50 MB of free disk space in `/var/tmp`.
- On HP-UX, 85 MB of free disk space in `/var/tmp`.

- On AIX, 30 MB of free disk space in `/tmp`.
- On Linux, 50 MB of free disk space in `/tmp`.

Required Disk Space in User's Home Directory

The user's home directory must at least have 250 MB of free disk space.

Installing Releases with Higher Version Numbers

TIBCO products use a three-digit release number that makes it possible to specify major, minor, and service pack release. For example, release 2.1.3 means major version 2, minor version 1, and service pack 3.

- If you are installing using a service pack release (for example, 5.6.1 over 5.6.0), the installer will silently overwrite the existing version of the software. No interruptions to running software results.

  In that case, TIBCO Domain Utility is not launched, and you are not prompted to create an administration domain.

- If you are installing using a new major or minor release of a product that has already been installed, the installer will create a new directory in the directory of the old installation that is named after the two-digit release number (e.g. 5.8). The old installation is not removed, and must be uninstalled separately if you wish to remove it.

  In that case, TIBCO Domain Utility is launched at the end of installation, and you are prompted to create an administration domain.

If you install a product and that product is already installed on your machine, you cannot choose a different location.

Chapter 2 Installing the Software

This chapter explains how to install TIBCO Administrator and create the initial administration domain.

Topics

- Installation Options, page 10
- Starting the Administration Server and Hawk Services, page 13
- Uninstalling TIBCO Administrator, page 14

Installation Options

TIBCO Installer can run in GUI, console, or silent modes. Each mode is supported on all platforms.

- GUI mode presents panels that allow you to make choices about product selection, product location, and so on.

TIBCO Domain Utility is invoked after installation to create the initial administration domain only if you use GUI mode. When you are initially installing TIBCO Administrator, using GUI mode is recommended.

- Console mode allows you to run the installer from the command line. This is useful if your machine does not have a window environment or if you wish to install in silent mode. Silent mode installs without prompting you for information.
- Silent mode installs using values in .silent file. Silent mode installs in console mode without prompting you for input.

Install Using GUI Mode

To install TIBCO Administrator in GUI mode:

1. Open the physical media or download the TIBCO Administrator package.
2. Extract the TIBCO Administrator archive file to a temporary directory.
3. Navigate to the temporary directory.
4. Run **TIBCOUniversalInstaller**. The Welcome screen displays.
5. Click **Next**. The License Agreement screen appears. After reading through the license text, click **I accept the terms of the license agreement** and then click **Next**.
6. The Installation Profile Selection screen displays. Click a profile on the left or check the Customize Installation checkbox and check the checkboxes next to the features to install on the right.

7. Click **Next**. The TIBCO Installation Home screen displays.

- **Create a new** *TIBCO_HOME* To install the product into a new installation environment, specify the following properties:
  - **Name** Identifies the installation environment. The name cannot contain special characters such as "*", "?", ">", "<", ":", "|", "/", "\", or quotes (").

    The name is appended to the name of Windows services created by the installer and is a component of the path to the product in the Windows Start > All Programs menu.
  - **Path** The directory into which the product is installed. Type a path or click **Browse** to specify the path or accept the default location.

    The path cannot contain special characters such as "*", "#", "?", ">", "<", "%", "&", "$", "~" or "|". The path cannot be the same as the path of an existing environment.
- **Use an existing** *TIBCO_HOME* To install the product into an existing installation environment, select the environment from the Environment drop-down list.

  Refer *TIBCO Administrator Release Notes* for any known restrictions.

8. Click **Next**. The Pre-Install summary screen displays. Verify the list of products selected for install and then click **Install**.
9. The Post-Install Summary screen appears. This screen summarizes the installation process. Click **Finish** to complete the installation process and close the installer window.

Install Using Console Mode

To install the software in console mode:

1. Open the physical media or download the TIBCO Administrator package.
2. Extract the TIBCO Administrator archive file to a temporary directory.
3. Using a console window, navigate to the temporary directory.
4. Run **TIBCOUniversalInstaller -console**.
5. Complete the installation by responding to the console window prompts.

Install Using Silent Mode

In silent mode, the universal installer does not prompt for any inputs during installation. Instead, the inputs are read from a response file that can be provided as a command-line parameter. If no value is specified, the installer uses the default `TIBCOUniversalInstaller_Admin_`*`version_number`*`.silent` file.

The `TIBCOUniversalInstaller_Admin_`*`version_number`*`.silent` file is packaged in the directory that contains the universal installer. Edit the file with information for your environment before launching the silent installation. The file includes comments that describe the installation properties you can set. While you can use the `TIBCOUniversalInstaller_Admin_`*`version_number`*`.silent` file, it's good practice to copy the file to a different name and use that file for the silent install.

The following procedure explains how to install a TIBCO Administrator in silent mode. If errors occur during installation, they will be listed in the installation log file contained in *User_Home*`/.TIBCO` directory.

1. Open the physical media or download the TIBCO Administrator package.
2. Extract the contents of the package to a temporary directory.
3. Using a console window, navigate to the temporary directory.
4. Make a copy of the `TIBCOUniversalInstaller_Admin_`*`version_number`*`.silent` file and rename the file.
5. Using a text editor, open the copied file and update the install location and features to install.
6. Run the following:

   Windows `TIBCOUniversalInstaller.cmd -silent -V responseFile="`*`myfilename`*`.silent"`

   UNIX `TIBCOUniversalInstaller.bin -silent -V responseFile="`*`myfilename`*`.silent"`

Starting the Administration Server and Hawk Services

You can manually start the services as follows. These services are configured to automatically start at system boot time.

- On Microsoft Windows, start the administration server and TIBCO Hawk agent services by navigating to the Services control panel, selecting each service and starting it. The start order is not important.
- On Unix systems, from a command window, start the administration server:

  ```
  % cd TIBCO_ADMIN_DOMAIN_HOME/domain-name/bin
  % tibcoadmin_domain-name
  ```

  Start the TIBCO Hawk agent:

  ```
  % cd TIBCO_TRA_DOMAIN_HOME/domain_name
  % hawkagent_domain-name
  ```

You can then access TIBCO Administrator, as discussed in *TIBCO Administrator User's Guide*.

Uninstalling TIBCO Administrator

This section explains how to uninstall the TIBCO Administrator software.

When you uninstall TIBCO Administrator, only files that were created during installation are uninstalled. Other files, such as files created as a result of a deployment are not uninstalled.

To Uninstall the Software:

1. Stop the TIBCO product software that is using TIBCO Administrator software, including TIBCO Administrator.
2. Run the uninstaller:
   a. Navigate to *TIBCO_HOME*/tools/universal_installer and run **TIBCOUniversalInstaller-x86-64.exe**
   b. The Welcome screen displays. Click **Next**.
   c. The wizard provides uninstall options:
   — Custom Uninstall
   — Typical Uninstall
   d. Click **Next**. If you selected Custom Uninstall, select the checkboxes for products to uninstall and then click **Uninstall**.
   e. The Pre-Uninstall Summary displays. Click **Uninstall**.

      When uninstalling, popup windows displays asking to clean up the /tools directory. Click **Yes, clean it up.**
   f. The summary screen appears. Click **Finish** to exit the uninstall wizard. After uninstalling the software, the uninstaller may prompt you to reboot your computer.
3. Manually delete the directories under *ENV_HOME*.

Uninstallation Using the Silent Mode

This section explains how to uninstall TIBCO Administrator in the silent mode.

1. Copy the TIBCOUniversalInstaller and TIBCOUniversalInstaller_TRA_5.11.0.silent files into the directory: *TIBCO_HOME*/tools/universal_installer.
2. Open TIBCOUniversalInstaller_TRA_5.11.0.silent file in the edit mode.

3. To uninstall all products from *TIBCO_HOME*, set the following parameter:
   <entry key="uninstallTIBCOHome">`c:/tibco`*</entry>*
   <entry key="uninstallProductID"></entry>*
   <entry key="uninstallProductVersion"></entry>*

While uninstalling all products from *TIBCO_HOME* use:
`-V uninstallAllProducts="true"`

4. Open a console window and navigate to the directory:
   TIBCO_HOME`/tools/universal_installer`
5. Run the following:

   Windows `TIBCOUniversalInstaller.cmd -silent -V uninstallAllProducts="true" -V responseFile="myfilename.silent"`

   Linux `TIBCOUniversalInstaller.bin -silent -V`

Appendix A Troubleshooting and FAQ

This appendix provides some troubleshooting information and answers to frequently asked questions.

Topics

- Port/Address in Use Message, page 18
- Dependency Resolution Fails on Some UNIX Platforms, page 19
- Console Install, Silent Install and Server Creation, page 20
- Renaming Installation Directory, page 21
- DISPLAY Variable on UNIX, page 22

Port/Address in Use Message

You may get a `Port in Use` or `Address in Use` message for one of the following reasons:

- If a message displays indicating `Port in Use`, the port used by the TIBCO Repository Server servlet to communicate with Tomcat (the web server) is not available. Use TIBCO Domain Utility to change that port.
- If you stop and restart TIBCO Administrator under UNIX, an error results that indicates port 8080 is already in use. In that case, you have two choices to resolve the issue:
  - Change the `tcp_time_wait_interval`. For example, on Solaris, place the following line at the end of the file `/etc/rc2.d/S69inet`

    ```
    ndd -set /dev/tcp tcp_time_wait_interval 60000
    ```

    Then wait for 60 seconds before you restart TIBCO Administrator.

    On HP-UX, the file is in `/sbin/rc2.d` and is named `S008net.init`.
  - Find and kill the two TIBCO Rendezvous (rvd) processes.

Dependency Resolution Fails on Some UNIX Platforms

On some platforms (HP-UX and AIX), even though the correct version of TRA is already installed in the system, installation of an old product that depends on TRA may fail in the dependency resolution. This is considered a known issue.

The TIBCO product installer for older products maintains the registry information in the file `vpd.properties.tibco.systemName`. The value for `systemName` is determined by `InetAddress.getLocalHost().getHostName()`. However, the method `getHostName()`, returns different values based on the JRE versions used. For instance on AIX, JRE 1.3.1 returns only `systemName`, whereas JRE 1.4.0 returns `systemName.domainName`. Because of this, the installer is not always able to load the correct registry file.

On Unix platforms, the installer registry file `vpd.properties.tibco.`*`systemName`* is located in the user's home directory.

Case 1: If `vpd.properties.tibco.systemName` file exists

```
$ cd USER_HOME
$ ln -s vpd.properties.tibco.systemName
vpd.properties.tibco.systemName.domainName
```

Example:

```
$ cd ~
$ ln -s vpd.properties.tibco.upside
vpd.properties.tibco.upside.tibco.com
```

where `upside` is *`systemName`*, and `tibco.com` is *`domainName`*

Case 2: If `vpd.properties.tibco.`*`systemName.domainName`* file exists

```
$ cd USER_HOME
$ ln -s vpd.properties.tibco.systemName.domainName
vpd.properties.tibco.systemName
```

Example:

```
$ cd ~
$ ln -s vpd.properties.tibco.upside.tibco.com
vpd.properties.tibco.upside
```

where `upside` is *systemName*, and `tibco.com` is *`domainName`*

Console Install, Silent Install and Server Creation

When running the installer in console mode, TIBCO Domain Utility is not launched afterwards. How can the administration domain be created?

You can create an administration domain on Windows and Unix by launching the TIBCO Domain Utility: *TRA_HOME*`/bin/domainutility`

Renaming Installation Directory

Can the installation directory be renamed after installation?

If you rename the installation directory, unexplainable problems will result. *Do not* rename the directory.

DISPLAY Variable on UNIX

Why and how should I set the DISPLAY variable on UNIX platforms for GUI mode?

The installer on UNIX, must open an additional window, generally for graphics. It uses the DISPLAY environment variable to tell it on what computer to open the window. If the environment variable is not set, the installer will either wait or abort after displaying:

```
InstallShield Wizard
Initializing InstallShield Wizard...
Preparing Java(tm) Virtual Machine...
.....................................
.....................................
........
```

The DISPLAY variable must be set to the IP address or name of the computer (on which the installer graphics window are to be displayed), followed by a screen address, which can be `:0.0`. For example:

```
# Bourne shell
DISPLAY=ip_address:0.0; export DISPLAY

# Korn shell
export DISPLAY=ip_address:0.0

# C-shell
setenv DISPLAY ip_address:0.0
```

For example, consider a scenario where you need to install the adapter on a remote HPUX machine (named `itaska`). Because you have a Solaris 5.6 machine (named `alaska`) that has a video card and monitor installed, you can run an X-window application on it. So you decide to use telnet to connect to `itaska` from `alaska`.

When you telnet to `itaska`, you will not get access to `itaska`'s monitor and will be unable to display an X-window application. That is why you must set the `DISPLAY` variable, which instructs the X-server to redirect all windows to the computer set in the variable. Before doing so, the computer (specified in the `DISPLAY` variable) must give permissions to share its monitor.

```
alaska> xhost + # give permission for all to its share monitor
alaska> telnet itaska
Welcome to HPUX itaska 11.00
User:
Password:
itaska> export DISPLAY=alaska:0.0  # set display on alaska
itaska> TIB_designer-simple_5.0.1_h7_110.bin
```

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